



Supporting the National Curriculum 2014 with Purple Mash

Mathematics

Each year group contains examples of how the creative tools can be effectively used to support National Curriculum 2014.

Looking at examples from year groups above and below may provide additional ideas.

Year 1

<u>Number</u>

<u>Measurement</u>

Geometry

Year 2

Number

<u>Measurement</u>

Geometry

Statistics

Year 3

Number

Measurement

Geometry

Statistics

Year 4

Number

Measurement

Geometry

Statistics

Year 5

Number

Measurement

Geometry

Statistics

Year 6

Number

Ratio & Proportion

Algebra

Measurement

Geometry

Statistics



Number – number and place value				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
 Pupils should be taught to: Count to and across 100, forwards and backwards, beginning with 0 or 1, or from 	Use of Mathematics printable resources	Number lines, 100 squares, number cards	https://www.purplemash.com/#tab/teachers/ printable resources/printable resources mat hematics/printable resources maths templat es	
 any given number. Count, read and write numbers to 100 in numerals; count in multiples of twos, 		Number bonds (7+7) (10) (10) (10) (10) (10) (10) (10) (10	https://www.purplemash.com/#tab/teachers/ printable resources/printable resources mat hematics/printable resources maths templat es	
 fives and tens Given a number, identify one more and one less. Identify and represent 		Times Tables – for identifying number patterns when counting in 2s, 5s and 10s	https://www.purplemash.com/site#tab/teach ers/printable resources/printable resources mathematics/printable resources maths tabl es	
numbers using objects and pictorial representations including the number line,		Mini Mash Number resources	https://www.purplemash.com/#tab/teachers/ printable_resources/mini_mash_resources/m m_resources_numbers	
and use the language of: equal to, more than, less than (fewer), most, least.	Ready-made activities in https://www.purplemash.co	Digits and words to 20	https://www.purplemash.com/#app/pup/mat hs_activities_Y1_read_write_numbers	
Read and write numbers from 1 to 20 in numerals and	m/#tab/pm- home/maths/numbers/num bers place value	Digits and words to 100	https://www.purplemash.com/#app/pup/mat hs_activities_Y1_read_write_numbers_100	
words.		Number sequencing	https://www.purplemash.com/#app/pup/mat hs activities Y1 sequencing	
		Number Bonds to 10	https://www.purplemash.com/#app/pup/mat hs activities Y1 number bonds	
		Number Bonds to 20 – pairs game	https://www.purplemash.com/#app/pup/mat hs_activities_Y1_number_bonds_20	





	Ready-made activities in https://www.purplemash.co m/#tab/pm-	Number Bonds to 20 – spreadsheet activity	https://www.purplemash.com/#app/pup/mat hs_activities_Y1_number_bonds_20_2Calc
home/maths/numbers/num bers_place_value	1 more than, 1 less than	Various activities at <a #app="" href="https://www.purplemash.com/#tab/pm-home/maths/numbers/numbers place value/numbers place value/numbers place value less more than Mixed questions at https://www.purplemash.com/#app/pup/mat hs activities Y1 more and less	
		Counting in 2s Snake game	https://www.purplemash.com/#app/pup/mat hs activities Y1 count 2s snake
		Counting in 2s – Number Sequences	https://www.purplemash.com/site#app/pup/maths activities countingin2s L1
		Counting in 5s – Number Sequences	https://www.purplemash.com/site#app/pup/maths activities countingin5s L1
		Counting in 5s Snake game	https://www.purplemash.com/#app/pup/mat hs activities Y1 count 5s snake
		Number Chart Patterns	https://www.purplemash.com/site#app/pup/maths_activities_numberchart_L1
		Number Chart – Missing Numbers	https://www.purplemash.com/site#app/pup/maths activities numberchartmissing L1
		Find the number on the number line	https://www.purplemash.com/site#app/pup/ maths activities numberline L1
		Missing numbers on the number line	https://www.purplemash.com/site#app/pup/maths_activities_missingnumberline_L1
	Use 2Quiz to create your own number sequencing and cloze quizzes.	https://www.purplemash.com/site #app/diyjs/2quiz	https://www.purplemash.com/#tab/teachers/guides and resources/2diy 2quiz resources
	2Race Set up multiplayer games. Choose your track type and question types; pre-set choices include:	https://www.purplemash.com/#tab/pm-home/games/2race_all	https://www.purplemash.com/#tab/pm-home/games/2race_all
	One less/more than		





			160
	 Odd/eve Comparison Number bond Addition Subtraction Multiplication Division Times tables Use 2Investigate example databases to explore the language of: equal to, more 	https://www.purplemash.com/site#app/tools/2inv	https://www.purplemash.com/site#tab/teach ers/guides_and_resources/2inv_resourses
	than, less than (fewer), most, least. Use 2Investigate example database Numbers to investigate numbers that are odd/even, divisible by 5 by using the search options in the database to display them pictorially.	https://www.purplemash.com/s ite#app/tools/2inv	https://www.purplemash.com/site#tab/teach ers/guides and resources/2inv resourses
Number – addition and	subtraction		
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
 Pupils should be taught to: Read, write and interpret mathematical statements involving addition (+), 	Use of Mathematics printable resources	Number lines and 100 squares	https://www.purplemash.com/#tab/teachers/printable_resources/printable_resources_mathematics/printable_resources_maths_templates
 subtraction (–) and equals (=) signs. Represent and use number bonds and related subtraction facts within 20. 		Number bonds 222 2+7 =10 Number Bonds to Number Bonds to	https://www.purplemash.com/#tab/teachers/printable_resources/printable_resources_mathematics/printable_resources_maths_templates
Add and subtract one-digit and		Mini Mash Number resources	https://www.purplemash.com/#tab/teachers/printable_resources/mini_mash_resources/m





two-digit numbers to 20,			m resources numbers
including zero.			
Solve one-step problems that	Ready-made activities in	Addition and Subtraction to 20	https://www.purplemash.com/#app/pup/mat
involve addition and	https://www.purplemash.co		hs activities Y1 addition subtraction 20
subtraction, using concrete objects and pictorial	m/#tab/pm-	Addition and Subtraction to 20	https://www.purplemash.com/#app/pup/mat
representations, and missing	home/maths/numbers/num	cloze	hs_activities_Y1_addition_subtraction_cloze
number problems such as 7 =	ber addition subtraction		
		Addition and Subtraction to 20	https://www.purplemash.com/#app/pup/mat
		pairs game	hs activities Y2 addition and subtraction fa
			<u>cts_20</u>
	Maths Quiz	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teachers/
	Generate your own maths	p/diyjs/2quiz	guides and resources/2diy 2quiz resources
	quizzes. Test the children on		
	+, - or X of varying		
	complexity. 2Race	https://www.purplemash.com/#ta	https://www.purplemash.com/#tab/pm-
	Set up multiplayer games.	b/pm-home/games/2race_all	home/games/2race all
	Choose your track type and	b/pini-nome/games/2race_an	<u>nome/games/2race_an</u>
	question types; pre-set	[#888##.]	
	choices include:	A	
	One less/more than		
	Odd/eve	The t	
	Comparison		
	Number bond		
	Addition		
	Subtraction		
	Multiplication		
	Division		
	 Times tables 		





		100
Bond Bubbles Aim the bubble blower by clicking near a target bubble at the top of the screen. If the total of the bubble and the one it hits are the target number the bubbles will fall. Three levels of challenge Up to 20, 200 and finally 400. 2Calculate Spreadsheets	http://www.purplemash.com/#ga mes/bondbubbles Score: Make 5 https://www.purplemash.com/#ap	Use Bond Bubbles Challenge A. Use the teacher icon at the top of the screen to change the target number https://www.purplemash.com/#tab/teachers/
Includes premade lesson plans and videos to develop number problem-solving skills. Create your own activities to set as 2dos. 2Calculate Lessons: Shopping Animals Counting Fish On a Plate 10, 20, 30 Magic 12 1p and 2p Going Shopping Special Offers 2Pattern	2 + 9 =? 5 + 7 =? 6 + 5 =? 5 + 9 =? 8 + 4 =? 3 + 5 =? Can be accessed by pupils from within 2Calculate tool.	guides and resources/2calculate resources
A-Fish-Metic Use level 1: Basic or level 2:Adding and Subtracting. The levels consolidate addition and subtraction skills via games.	https://www.purplemash.com/#app/games/mg2/afishmetic 3 + 2 = 5	





Number – multiplication and division				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
Pupils should be taught to: Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	Use of Mathematics printable resources	Number lines and 100 squares	https://www.purplemash.com/#tab/teachers/ printable_resources/printable_resources_mat hematics/printable_resources_maths_templat es	
		Times Tables	https://www.purplemash.com/site#tab/teach ers/printable_resources/printable_resources mathematics/printable_resources_maths_tabl es	
	Ready-made activities in https://www.purplemash.co m/#tab/pm-	2Go activity – Counting in 2s -Level 1	https://www.purplemash.com/#app/pup/mat hs_activities_Y1_count_2s_1 https://www.purplemash.com/#app/pup/mat	
	home/maths/numbers/num ber multiplication division	-Level 2	hs activities Y1 count 2s 2	
		Counting in 2s Snake game	https://www.purplemash.com/#app/pup/mat hs activities Y1 count 2s snake	
		2Go activity – Counting in 5s -Level 1	https://www.purplemash.com/#app/pup/mat hs_activities_Y1_count_5s_1 https://www.purplemash.com/#app/pup/mat	
		-Level 2	hs activities Y1 count 5s 2	
		Counting in 5s Snake game	https://www.purplemash.com/#app/pup/mat hs activities Y1 count 5s snake	
		2Go activity – Counting in 10s -Level 1	https://www.purplemash.com/#app/pup/mat hs activities Y1 count 10s 1 https://www.purplemash.com/#app/pup/mat	
		-Level 2	hs activities Y1 count 10s 2	
	Maths Quiz Generate your own maths quizzes. Test the children on +, - or X of varying complexity.	https://www.purplemash.com/#ap p/diyjs/2quiz	https://www.purplemash.com/#tab/teachers/guides and resources/2diy 2quiz resources	





	2Race	https://www.purplemash.com/#ta	https://www.purplemash.com/#tab/pm-
	Set up multiplayer games.	b/pm-home/games/2race all	home/games/2race all
	Choose your track type and	sypin nome/games/2race_an	Pre-set choices include:
	question types	₩888#4.	One less/more than
	question types	Acces	Odd/eve
			• Comparison
		+2. +	Number bond
			Subtraction
			Multiplication
			• Division
			Times tables
	Table Toons	https://www.purplemash.com/#ta	
	The children develop their	b/pm-home/games/tabletoons	Matalatha halo cida a fusus cithiu
	multiplication skills through	eleateemit e	Watch the help video from within Table Toons to find out how to make full use
	song. The children create	8	of this tool.
	their own musical playlist	9 😓 💂 🕵	
	using a range of different	10	https://www.purplemash.com/#app/games/ mg2/tabletoons
	songs. Games consolidate		mgz/tabletoons
	these skills. Ranging from 2x		
·	to 12x	haran II	Editor II
	2Calculate Spreadsheets	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teachers/
	Includes premade lesson	p/tools/2Calculate	guides and resources/2calculate resources
	plans and videos to develop		
	number problem-solving		
	skills.		
	Create your own activities to		
	set as 2dos.	Can be accessed by mysile from	
	2Calculate Lessons:	Can be accessed by pupils from within 2Calculate tool.	
	10, 20, 30	within 2Calculate tool.	
	Magic 12		
	Going Shopping		
	Special Offers		





Number – fractions				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
 Pupils should be taught to: Recognise, find and name a half as one of two equal parts of an object, shape or 	Use of Mathematics printable resources	Fraction Walls	https://www.purplemash.com/#tab/teach ers/printable resources/printable resourc es mathematics/printable resources mat hs fractions	
 quantity. Recognise, find and name a quarter as one of four 		Mini Mash Number resources	https://www.purplemash.com/#tab/teachers/ printable_resources/mini_mash_resources/m m_resources_numbers	
quarter as one of four equal parts of an object, shape or quantity.	Fraction Wall Guide the falling fractions as they drop down from the top of the screen. Position the fractions so they contain a whole. Three levels of challenge that increases the complexity of the numbers used and the speed.	https://www.purplemash.com/#app/games/fracwall	Use Challenge A, Level 1	
	Fractonio's Pizzeria Develop fraction skills with 3 levels of difficulty.	https://www.purplemash.com/#app/games/mg 2/pizza Level 1: Pizza Rookie Trooud like	Level 1: Pizza Rookie asks the children to use simple fractions to create a pizza. Level 2: Pizza Master encourages the children to use mixed fractions and level 3: Pizza King converts fractions into percentages.	
	Ready-made activities in https://www.purplemash.co	Halves	https://www.purplemash.com/#app/pup/mat hs activities Y1 fractions halves	
	m/#tab/pm- home/maths/numbers/num ber_fractions	Quarters	https://www.purplemash.com/#app/pup/mat hs_activities_Y1_fractions_quarters	





Measurement				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
 Pupils should be taught to: Compare, describe and solve practical problems for: Lengths and heights [for 	Ready Made Activities In https://www.purplemash.com/site #tab/pm- home/maths/measures/maths_me asures_all	Longer or Shorter Tallest & Shortest	https://www.purplemash.com/site#app/pup/maths Comporder2 L2 https://www.purplemash.com/site#app/pup/maths Comporder L2	
example, long/short, longer/shorter, tall/short, double/half]. Mass/weight [for example, heavy/light, heavier than, lighter than].	Length and Weight 2Calculate Spreadsheets Create a spreadsheet for pupils to record the lengths and weights of classroom objects. Show children how the spreadsheet can sort them automatically and order by length or weight.	https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides_and_resources/2calculate_r esources	
 Capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]. Time [for example, quicker, slower, earlier, later] Measure and begin to record the following: Lengths and heights mass/weight capacity and volume 	Length and Weight 2Investigate databases Create a database of objects with information including fields; length, weight, capacity, waterproof (y/n), stackable (y/n). You can pose questions like which item would be best for packing your clothes in to go away for a week? or a day? which would be best for bringing water to school in? which would be good for packing your toys in? Then show how to search the database.	https://www.purplemash.com/ #app/tools/2inv	https://www.purplemash.com/#tab/teachers/guides and resources/2inv resources	

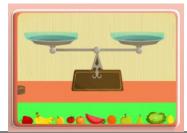


- time (hours, minutes, seconds)
- Recognise and know the value of different denominations of coins and notes.
- Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]
- Recognise and use language relating to dates, including days of the week, weeks, months and years.
- Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.

Weight

Maths City 2; Grocers video of the grocers. Balance scale activity.

https://www.purplemash.com/site #app/games/mc2



Watch the help video within the program for guidance on what children do in the activities.

Printable resources are also available https://www.purplemash.com/site#tab/p m-

home/themes/mathssubject/maths_city
2 resouces early years

Length

Maths City 2; Shoe Shop video of the shop. Children measuring feet. Activities measuring in footprints and shopping for shoes.

https://www.purplemash.com/site
#app/games/mc2





Watch the help video within the program for guidance on what children do in the activities.

Printable resources are also available https://www.purplemash.com/site#tab/p m-

home/themes/mathssubject/maths city
2 resouces early years

Height

Maths City 2; Shoe Shop. Activity measuring height in hands.

https://www.purplemash.com/site
#app/games/mc2



Watch the help video within the program for guidance on what children do in the activities.

Printable resources are also available https://www.purplemash.com/site#tab/p

home/themes/mathssubject/maths_city_
2 resouces early years

Time

Clock proformas, days of the week,

https://www.purplemash.com/#tab/pm-





Use of Mathematics printable	months of the year resources.	home/themes/mathssubject/printable re
resources	months of the year resources.	sources maths time
resources	Worksheets to accompany ready-	https://www.purplemash.com/#tab/pm-
	made activities	home/themes/mathssubject/printable re
	made activities	
	will a the grant of	sources maths time
Time	Telling the time quiz	https://www.purplemash.com/#app/pup
Ready-made activites in		/maths_activities Y1_time_quiz
https://www.purplemash.com/#tab/pm	Sequencing activity – Racing	https://www.purplemash.com/#app/pup
-home/maths/measures/time_topic	positions	/maths activities Y1 time racing positi
		<u>ons</u>
	What's the Time Mr. Wolf? - 10	https://www.purplemash.com/#tab/pm-
	progressive cloze activities with	home/maths/measures/time_topic
	accompanying printable	
	worksheets	
	Paint Projects - Clock 1	https://www.purplemash.com/site#app/
	Draw the hands on the clock. Then	<pre>pap/technology/clock_a</pre>
	draw a picture to show what	
	happens at that time.	
	Paint Project - Clock 2	https://www.purplemash.com/#app/pap
	Drag the numbers onto the digital	<u>/technology/clock_d</u>
	clock face. Then draw a picture to	
	show what happens at that time.	
	Paint Project – Clock 3	https://www.purplemash.com/site#app/
	Shade out the numbers on a digital	<pre>pap/technology/clock_big_d</pre>
	clock face and draw what happens.	
<u>Time</u>	https://www.purplemash.com/site	https://www.purplemash.com/#tab/teac
Create 2Quiz sequencing activities	#tab/pm-home/tools/2diynew	hers/guides and resources/2diy 2quiz r
where the children place the days of		<u>esources</u>
the week, months, years or events in		
chronological order using the		
required language.		
Money	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teac
Ready-made 2Calculate	p/tools/2Calculate	hers/guides and resources/2calculate r
Spreadsheet - Shopping, Going	Activity can be accessed by pupils	esources
Shopping and Special offers	from within 2Calculate tool.	
Using a spreadsheet to price objects		
<u> </u>		





li s n Y	and pay for them with coins. ncludes lesson plan, premade spreadsheet and video to develop number problem-solving skills. You can also create your own 2Calculate activities to set as 2dos.		
R	Money Ready-made activities in https://www.purplemash.com/#t	Money pairs game	https://www.purplemash.com/#app/pup/maths_activities_Y1_measures_money_pairs
<u>a</u> <u>h</u>	ab/pm- home/maths/measures/maths m easures money	Money up to 10p	https://www.purplemash.com/#app/pup/maths activities Y1 money upt o10 a https://www.purplemash.com/#app/pup/maths activities Y1 money upt o10 b
		Money up to 20p	https://www.purplemash.com/#app/pup/maths activities Y1 money upt o20 a https://www.purplemash.com/#app/pup/maths activities Y1 money upt o20 b
		Money up to 50p	https://www.purplemash.com/#app/pup/maths activities Y1 money upt o50 a https://www.purplemash.com/#app/pup/maths activities Y1 money upt o50 b
		Money up to £1	https://www.purplemash.com/#app/pup/maths activities Y1 money upt o100p a https://www.purplemash.com/#app/pup/maths activities Y1 money upt o100p b





Money Maths City 1; Toyshop videos and money activity Fill the shelves with toys and add prices, add toys to the shopping basket then pay (with 1p coins) Maths City 2; Grocers Shopping activity (stage 1-3) Shoe Shop video of the shop and activity shopping for shoes.	https://www.purplemash.com/site #app/games/mc1 https://www.purplemash.com/site #app/games/mc2	https://www.purplemash.com/#app/pup/maths activities Y1 money upt o100p c https://www.purplemash.com/#app/pup/maths activities Y1 money upt o100p d Watch the help video within the program for guidance on what children do in the activities. Printable resources are also available https://www.purplemash.com/site#tab/pm-home/themes/mathssubject/maths city 1 resouces early years/maths city 1 pr intable toy https://www.purplemash.com/site#tab/pm-home/themes/mathssubject/maths city 2 resouces early years
Financial Capability activities Aimed at Y1-6 a collection of a variety of activities	https://www.purplemash.com/ #tab/pm- home/topics/financial educatio n	https://www.purplemash.com/#app/pup/Financialcapability lessonideas





Capacity 2Calculate Spreadsheets Create a spreadsheet for pupils to record the capacities of classroom objects.		
2Quiz – Sequencing and labelling Create quizzes where children order and label lengths, weights, capacities or time using full/empty, more than, less than, half, half full, quarter.	https://www.purplemash.com/#ap p/diyjs/2quiz	https://www.purplemash.com/#tab/teac hers/guides and resources/2diy 2quiz r esources





Geometry – properties of a shape			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
Pupils should be taught to: Recognise and name common 2-D and 3-D shapes, including:	Use of Mathematics printable resources	2D and 3D shape dominoes, memory games and posters	https://www.purplemash.com/#tab/teac hers/printable resources/printable reso urces mathematics/printable resources maths shape
 2-D shapes [for example, rectangles (including squares), circles and triangles] 	Paint Projects Basic Shapes (2D)	https://www.purplemash.com/#ap p/pap/size_and_shape/basic_shap es	muns shape
 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]. 	Rectangles	https://www.purplemash.com/#ap p/pap/size and shape/rectangular things	
p,	Circles	https://www.purplemash.com/#ap p/pap/size and shape/round thin gs	
	Squares	https://www.purplemash.com/#ap p/pap/size and shape/square thi ngs	
	Triangles	https://www.purplemash.com/#ap p/pap/size and shape/triangular t hings	
	2D shape pairs game	https://www.purplemash.com/#ap p/pup/maths_activities_Y1_shape 2d	
	Writing Projects 3D Shapes Choose 6 3D shapes and describe their properties	https://www.purplemash.com/#ap p/pup/3dshapes	





Polygons Choose 6 polygons and describe their properties	p/pup/polygons	
Triangle Properties Describe the properties of a triangle	https://www.purplemash.com/#app/pup/triangles	
2Quiz	https://www.purplemash.com/site	https://www.purplemash.com/#tab/teac
Create 2Quiz labelling activities	#tab/pm-home/tools/2diynew	hers/guides and resources/2diy 2quiz r
where the children label objects with		esources
their shapes (2D and 3D).		
2Design and Make	https://www.purplemash.com/#ap	https://www.purplemash.com/#app/less
Pupils can use the 3D shapes in	p/tools/2dam	onplans/info/2dam guide
2Design and Make to create nets		
with topic related designs, print		
them and fold them into the 3D		
shapes.		
Pupils could make 3D boxes in		
different 3D shapes.		





Geometry – position and direction			
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Pupils should be taught to: Describe position, direction and movement, including whole, half, quarter and three quarter	Use the ready-made templates to guide the bee around, using directional controls. Change the input method in settings to extend children's knowledge of directional control. There are several Challenges for children to try.	https://www.purplemash.com/ #app/tools/2go A	https://www.purplemash.com/#tab/teachers/guides and resources/2golessonideas





Number – number and place value			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward. Recognise the place value of each digit in a two-digit number (tens, ones) 	Use of Mathematics printable resources	Number lines, 100 squares, number cards, place value Times Tables – for identifying number patterns when counting in 2s, 3s, 5s and 10s. Includes printable games.	https://www.purplemash.com/#tab/teachers/ printable resources/printable resources mat hematics/printable resources maths templat es https://www.purplemash.com/site#tab/teach ers/printable resources/printable resources mathematics/printable resources maths tabl es
 Identify, represent and estimate numbers using different representations, including the numberline. 	Ready-made activities in https://www.purplemash.co m/#tab/pm-		





		hs activities Y2 count 3s snake
	Counting in 5s Snake game	https://www.purplemash.com/#app/pup/mat
		hs activities Y1 count 5s snake
	Place Value Models – Tens & Ones	https://www.purplemash.com/site#app/pup/
		maths activities placevaluemodelL10s1s L2
	Place Value Models – Up to	https://www.purplemash.com/site#app/pup/
	hundreds	maths activities placevaluemodelL100s L2
Use 2Quiz Sequencing	https://www.purplemash.com/site	https://www.purplemash.com/#tab/teachers/
questions to create some	#app/diyjs/2quiz	guides and resources/2diy 2quiz resources
number sequencing and		
cloze quizzes. Can the		
children continue the		
sequence in their books?		
2Race	https://www.purplemash.com/#ta	https://www.purplemash.com/#tab/pm-
Set up multiplayer games.	b/pm-home/games/2race_all	home/games/2race_all
Choose your track type and		
question types; pre-set	₩₩₩	
choices include:		
 One less/more than 	***	
 Odd/eve 	\	
 Comparison 		
 Number bond 		
 Addition 		
 Subtraction 		
 Multiplication 		
• Division		
 Times tables 		
Use 2Investigate example	https://www.purplemash.com/s	https://www.purplemash.com/site#tab/teach
databases to explore the	ite#app/tools/2inv	ers/guides_and_resources/2inv_resourses
language of: equal to, more		
than, less than (fewer),		
most, least.		





L	Use 2Investigate example	https://www.purplemash.com/s	https://www.purplemash.com/site#tab/teach
d	database Numbers to	ite#app/tools/2inv	ers/guides_and_resources/2inv_resourses
i	nvestigate numbers that are		
	odd/even, divisible by 5 by		
u	using the search options in		
t	the database to display them		
p	oictorially.		
2	2Calculate Place Value	https://www.purplemash.com/s	
S	Spreadsheets.	ite#app/pup/2calc place value	
H	Helps children recognise the	TU	
p	olace value of each digit in a		
l t	two-digit number (tens,		
	ones). Use as a whiteboard		
r	resource or for individuals to		
C	challenge and test		
t	themselves.		





Number – addition and subtraction			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
Pupils should be taught to: • solve problems with addition and subtraction: • Using concrete objects and pictorial	Use of Mathematics printable resources	Number lines, place value and 100 squares Number bonds	https://www.purplemash.com/#tab/teachers/printable resources/printable resources mat hematics/printable resources maths templates https://www.purplemash.com/#tab/teachers/
representations, including those involving numbers, quantities and measures.		Number Bonds to 10 Number Bonds to 10 10 10 10 10 10 10 10 10 10 10 10 10	printable resources/printable resources mat hematics/printable resources maths templat es
 Applying their increasing knowledge of mental and written methods. 	Ready-made activities in https://www.purplemash.co m/#tab/pm-	Number bonds to 20 pairs game	https://www.purplemash.com/#app/pup/mat hs_activities_Y2_addition_and_subtraction_fa cts_20
 Recall and use addition and subtraction facts to 20 fluently, and derive and use 	home/maths/numbers/num ber addition subtraction	Number bonds to 100 in 10s pairs game	https://www.purplemash.com/#app/pup/mat hs activities Y2 addition and subtraction fa cts
related facts up to 100. • Add and subtract numbers		Matching Models (+ & -)	https://www.purplemash.com/site#app/pup/maths additionsubtractionmodels L2
using concrete objects, pictorial representations, and mentally, including:	2Race Set up multiplayer games. Choose your track type and question types; pre-set choices include: One less/more than Odd/eve Comparison Number bond Addition Subtraction Multiplication Division Times tables	https://www.purplemash.com/#tab/pm-home/games/2race_all	https://www.purplemash.com/#tab/pm-home/games/2race all





			T E d
subtraction of one number	Maths Quiz	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teachers/
from another cannot.	Generate your own maths	p/diyjs/2quiz	guides and resources/2diy 2quiz resources
 Recognise and use the 	quizzes. Test the children on		
inverse relationship between	+, - or X of varying		
addition and subtraction and	complexity.		
use this to check calculations	Maths Cloze	https://www.purplemash.com/site	https://www.purplemash.com/#tab/teachers/
and solve missing number	Use 2Quiz to create some	#app/diyjs/2quiz	guides and resources/2diy_2quiz_resources
	number sequencing and		
problems.	cloze quizzes.		
	<u>Pairs</u>	https://www.purplemash.com/#ap	https://www.purplemash.com/site#tab/teach
	Create your own matching	p/tools/2pairspm	ers/guides and resources/2diy 2quiz resour
	pairs game of varying		ces
	complexity. Match number		
	bonds to 20, maths		
	questions with their answer.		
	Bond Bubbles	http://www.purplemash.com/#ga	Use Bond Bubbles Challenge A. Use the
	Aim the bubble blower by	mes/bondbubbles	teacher icon at the top of the screen to
	clicking near a target bubble	Score: 0 Level: 1 P. 3. 7 Make 5 2 4	change the target number
	at the top of the screen. If		
	the total of the bubble and		
	the one it hits are the target		
	number the bubbles will fall.		
	Three levels of challenge	Next balloon	
	Up to 20, 200 and finally		
	400.		
	2Calculate Spreadsheets	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teachers/
	Includes premade lesson	p/tools/2Calculate	guides and resources/2calculate resources
	plans and videos to develop		
	number problem-solving	2 + 9 = ?	
	skills.	5 + 7 <mark>=?</mark>	
	Create your own activities to	6 + 5 <mark>=?</mark>	
	set as 2dos.	5 + 9 =?	
	2Calculate Lessons:	8 + 4 =?	
	Shopping On a Plate		
		3 + 5 = ?	
	1p and 2p	i i i i i i	





Going Sho Special Of 2Pattern		ls from
A-Fish-Me		
· · · · · · · · · · · · · · · · · · ·	pasic number p/games/mg2/afishmet	CC CC
difficulty cover add subtracti	4 levels of Levels 1 and 2 lition and on, level 3	
I	multiplication.	





Number – multiplication and division			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd 	Use of Mathematics printable resources	Number lines and 100 squares	https://www.purplemash.com/#tab/teachers/printable resources/printable resources mat hematics/printable resources maths templat es
 and even numbers. Calculate mathematical statements for multiplication and division 		Times Tables	https://www.purplemash.com/site#tab/teach ers/printable_resources/printable_resources mathematics/printable_resources_maths_tabl_ es
within the multiplication tables and write them using the multiplication (×),	Ready-made activities in https://www.purplemash.co m/#tab/pm-	2Go activity – Counting in 2s -Level 1	https://www.purplemash.com/#app/pup/mat hs activities Y1 count 2s 1 https://www.purplemash.com/#app/pup/mat
division (÷) and equals (=) signs.Show that multiplication of	home/maths/numbers/number multiplication division	-Level 2 Counting in 2s Snake game	hs activities Y1 count 2s 2 https://www.purplemash.com/#app/pup/mat hs activities Y1 count 2s snake
two numbers can be done in any order (commutative) and division of one number		2Go activity – Counting in 5s -Level 1	https://www.purplemash.com/#app/pup/mat hs activities Y1 count 5s 1 https://www.purplemash.com/#app/pup/mat
by another cannot. • Solve problems involving		-Level 2 Counting in 5s Snake game	hs activities Y1 count 5s 2 https://www.purplemash.com/#app/pup/mat hs activities Y1 count 5s snake
multiplication and division, using materials, arrays, repeated addition, mental		2Go activity – Counting in 10s -Level 1	https://www.purplemash.com/#app/pup/mat hs activities Y1 count 10s 1 https://www.purplemash.com/#app/pup/mat
methods, and multiplication and division facts, including problems in		-Level 2 Counting in 3s Snake game	hs activities Y1 count 10s 2 https://www.purplemash.com/#app/pup/mat hs activities Y2 count 3s snake
contexts.		Odd and Even	https://www.purplemash.com/#app/pup/mat hs activities Y2 odd even





	Multiplication Facts for 2,5,10 times tables. Arrays – Division Statements	https://www.purplemash.com/#app/pup/mat hs activities Y2 multiplication division facts 2 5 10 https://www.purplemash.com/site#app/pup/ maths activities arraysdivision L2
	Multiplication Expressions	https://www.purplemash.com/site#app/pup/maths activities multiplicationexpressions L2
	Relating ÷ and x to objects	https://www.purplemash.com/site#app/pup/maths activities relatingaddmult L2
	Division by counting equal groups	https://www.purplemash.com/site#app/pup/ maths activities divisiongroups L2
	Arrays as repeated addition – Expressions	https://www.purplemash.com/site#app/pup/maths activities arraysrepeatedaddition_exp_ressions_L2
	Arrays as repeated addition – matching statements to array.	https://www.purplemash.com/site#app/pup/maths_activities_arraysrepeatedaddition_L2
Use 2Investigate example database Numbers to investigate numbers that are odd/even, divisible by 5 by using the search options in the database to display them pictorially.		https://www.purplemash.com/site#tab/teach ers/guides and resources/2inv resourses
Maths Quiz Generate your own maths quizzes. Test the children on +, - or X of varying complexity.	https://www.purplemash.com/#ap p/diyjs/2quiz	https://www.purplemash.com/#tab/teachers/guides_and_resources/2diy_2quiz_resources
complexity. Use Venn diagrams (in		





grouping) to explore number patterns e.g. numbers in 2x table, in 5x table (in both). Children can develop their own.	Example at https://www.purplemash.com/app/pup/maths activities Y3 venn multiples	
Table Toons The children develop their multiplication skills through song. The children create their own musical playlist using a range of different songs. Games consolidate these skills. Ranging from 2x to 12x 2Calculate Spreadsheets Includes premade lesson plans and videos to develop number problem-solving skills.	https://www.purplemash.com/#tab/pm-home/games/tabletoons prince Tabletoons https://www.purplemash.com/#app/tools/2Calculate	Watch the help video from within Table Toons to find out how to make full use of this tool. https://www.purplemash.com/#app/games/ mg2/tabletoons https://www.purplemash.com/#tab/teachers/ guides and resources/2calculate resources Create your own activities to set as 2dos.
2Race Set up multiplayer games. Choose your track type and question types; pre-set choices include: One less/more than Odd/eve Comparison Number bond Addition Subtraction Multiplication	https://www.purplemash.com/#tab/pm-home/games/2race_all	https://www.purplemash.com/#tab/pm-home/games/2race_all





DivisionTimes tables		
A-Fish-Metic Develop basic number skills with 4 levels of difficulty. Levels 1 and 2 cover addition and subtraction, level 3 multiplication and level advanced multiplication.	1	Current: 2 Target: 8 26 Round: 1 Click the bubbles and try to get to 8 fish.





Number – fractions				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
 Pupils should be taught to: Recognise, find, name and write fractions ¹/₃, ¼, ²/₄, and ¾ of a length, shape, set of objects or quantity. Write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of ²/₄ and ½. 	Fraction Wall Guide the falling fractions as they drop down from the top of the screen. Position the fractions so they contain a whole. Three levels of challenge that increases the complexity of the numbers used and the speed. Fractonio's Pizzeria Develop fraction skills with 3 levels of difficulty.	https://www.purplemash.com/#app/games/fracwall bttps://www.purplemash.com/#app/games/mg2/pizza Level 1: Pizza Rookie Twould like: 1 third cheese 2 thirds mushrooms on my pizza please.	https://www.purplemash.com/#tab/teach ers/printable resources/printable resource es mathematics/printable resources mat hs fractions Use Challenge A, Levels 2-4 Level 1: Pizza Rookie asks the children to use simple fractions to create a pizza. Level 2: Pizza Master encourages the children to use mixed fractions and level 3: Pizza King converts fractions into percentages.	
	Ready-made activities in https://www.purplemash.co	Halves	https://www.purplemash.com/#app/pup/mat	
	m/#tab/pm-	Quarters	hs activities Y1 fractions halves https://www.purplemash.com/#app/pup/mat	
	home/maths/numbers/num		hs activities Y1 fractions quarters	
	ber_tractions	Equivalent Fractions		
	ber_fractions	Equivalent Fractions	https://www.purplemash.com/#app/pup/mat hs activities Y2 fraction equivalence	





Measurement			
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Pupils should be taught to: • Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit,	Length and Weight 2Calculate Spreadsheets Create a spreadsheet for pupils to record the lengths and weights of classroom objects. Show children how the spreadsheet can sort them automatically and order by length or weight.	https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources
using rulers, scales, thermometers and measuring vessels. Compare and order lengths, mass, volume/capacity and record the results using >, < and =.	Length and Weight 2Investigate databases Create a database of objects with information including fields; length, weight, capacity, waterproof (y/n), stackable (y/n). Use the search facilities to practice the use of >, < and = symbols.	https://www.purplemash.com/ #app/tools/2inv	https://www.purplemash.com/#tab/teachers/guides and resources/2inv resources
 Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations 	Time Use of Mathematics printable resources	Clock proformas, days of the week, months of the year resources. Worksheets to accompany readymade activities	https://www.purplemash.com/#tab/pm-home/themes/mathssubject/printable_resources_maths_time https://www.purplemash.com/#tab/pm-home/themes/mathssubject/printable_resources_maths_time
 of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of 	Time Ready-made activites in https://www.purplemash.com/#tab/pm -home/maths/measures/time_topic	Telling the time quiz Sequencing activity – Racing positions	https://www.purplemash.com/#app/pup/maths activities Y1 time quiz https://www.purplemash.com/#app/pup/maths activities Y1 time racing positions



	money of the same unit,		What's the Time Mr. Wolf? – 10	https://www.purplemash.com/#tab/pm-
	including giving change.		progressive cloze activities with	home/maths/measures/time_topic
•	Compare and sequence		accompanying printable	
	intervals of time.		worksheets	
	Tell and write the time to		Paint Projects – Clock 1	https://www.purplemash.com/site#app/
•			Draw the hands on the clock. Then	<pre>pap/technology/clock_a</pre>
	five minutes, including		draw a picture to show what	
	quarter past/to the hour		happens at that time.	
	and draw the hands on a		Paint Project – Clock 2	https://www.purplemash.com/#app/pap
	clock face to show these			/technology/clock_d
	times.		Paint Project – Clock 3	https://www.purplemash.com/site#app/
•	Know the number of		Shade out the numbers on a digital	pap/technology/clock big d
	minutes in an hour and the		clock face and draw what happens.	
	number of hours in a day.		Writing Project	https://www.purplemash.com/#app/pup
			Choose 6 clocks and write the time	<u>/time</u>
			and what happens	
		Money	Money pairs game	https://www.purplemash.com/#app/pup
		Ready-made activities in		/maths activities Y1 measures money
		https://www.purplemash.com/#tab/		pairs
		pm-	Shop- Multi-drag game	https://www.purplemash.com/#app/pup
		home/maths/measures/maths_mea		/maths_activities_Y2_measures_money_
		sures_money		drag
			Money up to 10p	https://www.purplemash.com/#app/pup
				/maths_activities_Y1_money_upto10_a
				https://www.purplemash.com/#app/pup
				/maths activities Y1 money upto10 b
			Calculating change from 10p	https://www.purplemash.com/#app/pup
				/maths_activities_Y2_money_change_up
				<u>to10p_a</u>
				https://www.purplemash.com/#app/pup
				/maths_activities_Y2_money_change_up
				<u>to10p_b</u>
			Money up to 20p	https://www.purplemash.com/#app/pup
				/maths_activities Y1 money upto20 a
				https://www.purplemash.com/#app/pup
1				





	/maths activities Y1 money upto20
Calculating change from 20p	https://www.purplemash.com/#app/p
	/maths activities Y2 money change to 20p a
	https://www.purplemash.com/#app/p
	/maths_activities_Y2_money_change
Manay un ta FOn	to20p b
Money up to 50p	https://www.purplemash.com/#app/p/maths activities Y1 money upto50
	https://www.purplemash.com/#app/p
	/maths activities Y1 money upto50
Calculating change from 50p	https://www.purplemash.com/#app/p
	/maths activities Y2 money change
	to50p_a https://www.purplemash.com/#app/p
	/maths activities Y2 money change
	<u>to50p b</u>
Money up to £1	https://www.purplemash.com/#app/r
	/maths_activities_Y1_money_upto100
	https://www.purplemash.com/#app/p
	/maths activities Y1 money upto100
	<u>b</u>
	https://www.purplemash.com/#app/p
	/maths_activities_Y1_money_upto100
	https://www.purplemash.com/#app/g
	/maths activities Y1 money upto100
	<u>d</u>
Calculating change from £1	https://www.purplemash.com/#app/p
	/maths activities Y2 money change to 100p a
	https://www.purplemash.com/#app/p
	/maths activities Y2 money change
	<u>to100p_b</u>





Money	https://www.purplemash.com/#app/tools/	https://www.purplemash.com/#app/pup/maths activities Y2 money change up to100p c https://www.purplemash.com/#app/pup/maths activities Y2 money change up to100p d https://www.purplemash.com/#tab/teachers/guid
Ready-made 2Calculate Spreadsheets – Shopping, Going Shopping and Special offers Using a spreadsheet to price objects and pay for them with coins. Includes lesson plans, premade spreadsheets and videos to develop number problem-solving skills. You can also create your own	2Calculate Activity can be accessed by pupils from within 2Calculate tool.	es and resources/2calculate resources
2Calculate activities to set as 2dos.		
Financial Capability activities Aimed at Y1-6 a collection of a variety of activities	https://www.purplemash.com/ #tab/pm- home/topics/financial educatio n	https://www.purplemash.com/#app/pup/Financialcapability lessonideas
Practice of >, < and =. Symbols Use of the 2Investigate example databases and worksheets to search the databases and find records meeting specific criteria.	https://www.purplemash.com/#app/tools/2inv	https://www.purplemash.com/#tab/teac hers/guides and resources/2inv resours es
Capacity 2Calculate Spreadsheets Create a spreadsheet for pupils to record the capacities of classroom objects.	https://www.purplemash.com/#app/tools/2inv	https://www.purplemash.com/#tab/teac hers/guides_and_resources/2inv_resours es





<u>Temperature</u>	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teac
Combine with science	p/tools/2inv	hers/guides and resources/2inv resours
experimentation. Use or 2Calulate to		<u>es</u>
record results. Use these tools to		
create 2Graph line graphs of the		
data.		
2Quiz - Sequencing and labelling	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teac
Create quizzes where children order	p/diyjs/2quiz	hers/guides and resources/2diy 2quiz r
and label lengths, weights, capacities		<u>esources</u>
or time using the vocabulary in the		
curriculum requirements e.g.		
full/empty, more than, less than,		
half, half full, quarter.		

Geometry – properties of a shape				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
 Pupils should be taught to: Identify and describe the properties of 2-D shapes, including the number of sides 	Use of Mathematics printable resources	2D and 3D shape dominoes, memory games and posters	https://www.purplemash.com/#tab/teac hers/printable_resources/printable_reso urces_mathematics/printable_resources maths_shape	
and line symmetry in a vertical line.	Ready-made activites in https://www.purplemash.com/#t	Basic Shapes (2D)	https://www.purplemash.com/#app/pap /size_and_shape/basic_shapes	
 Identify and describe the properties of 3-D shapes, including the number of 	ab/pm- home/maths/patterns and shap	Rectangles	https://www.purplemash.com/#app/pap/size and shape/rectangular things	
edges, vertices and faces Identify 2-D shapes on the	es/maths shape properties	Circles	https://www.purplemash.com/#app/pap /size_and_shape/round_things	
surface of 3-D shapes, [for example, a circle on a cylinder		Squares	https://www.purplemash.com/#app/pap /size_and_shape/square_things	
and a triangle on a pyramid]Compare and sort common 2-		Triangles	https://www.purplemash.com/#app/pap /size_and_shape/triangular_things	



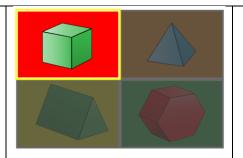


D and 3-D shapes and everyday objects.		2D shape pairs game	https://www.purplemash.com/#app/pup/maths activities Y1 shape 2d
everyday objects.			/maths_activities_f1_shape_zu
	Writing Projects	https://www.purplemash.com/#ap	
	3D Shapes	p/pup/3dshapes	
	Choose 6 3D shapes and describe	Story and docube that	
	their properties		
		https://www.purplemash.com/#ap	
		p/pup/polygons	
	Polygons Choose 6 polygons and describe their properties		
		https://www.purplemash.com/#ap	
	Triangle Properties Describe the properties of a triangle	p/pup/triangles Indicate Ind	
	2Quiz	https://www.purplemash.com/site	https://www.purplemash.com/#tab/teac
	Create 2Quiz labelling activities	#tab/pm-home/tools/2diynew	hers/guides and resources/2diy 2quiz r
	where the children label objects with		<u>esources</u>
	their shapes (2D and 3D).		
	2Design and Make	https://www.purplemash.com/#ap	https://www.purplemash.com/#app/less
	Pupils can use the 3D shapes in	p/tools/2dam	onplans/info/2dam_guide
	2Design and Make to create nets		
	with topic related designs, print		
	them and fold them into the 3D		
	shapes.		
	Pupils could make 3D boxes in		





different 3D shapes.



Geometry – position and direction

Geometry – position and direction			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Order and arrange combinations of mathematical objects in patterns and sequences. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise). 	Use the ready-made templates to guide the bee around, using directional controls. Change the input method in settings to extend children's knowledge of directional control. There are several Challenges for children to try.	https://www.purplemash.com/ #app/tools/2go description: 4	https://www.purplemash.com/#tab/teachers/guides and resources/2golessonideas





Statistics			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
Pupils should be taught to: Interpret and construct simple pictograms, tally	Ready-made activites in https://www.purplemash.com/site #tab/pm-home/maths/statistics	Graph activity Venn Diagrams	https://www.purplemash.com/#app/pup/maths activities Y2 charts https://www.purplemash.com/site#app/
charts, block diagrams and		Yelli Siagranis	pup/maths_identcategoriesdata_L2
 simple tables. Ask and answer simple questions by counting the 		Tally Tables and Data Tables	https://www.purplemash.com/site#app/ pup/maths_identcategoriesdata1_L2
number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.).	category and sorting the categories by quantity. cand answer questions out totalling and comparing	https://www.purplemash.com/#ap	https://www.purplemash.com/#app/guides/2Count_Guide
	2Graph Create a range of bar, block, line and pie charts to show information gathered from elsewhere.	https://www.purplemash.com/#ap	https://www.purplemash.com/#app/guides/2Graph_Guide
	2Calculate Spreadsheets Includes premade lesson plans and videos to develop number problemsolving skills. Create your own activities to set as 2dos e.g. create a simple bar chart	https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides_and_resources/2calculate_r esources

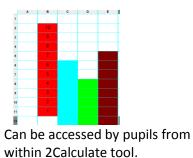




to show eye colours in the class.

Relevant 2Calculate Lessons:

Nice Ices That's my Favourite Special Offers Block Chart, Bar Chart







Year 3

Number – number and place value			
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
 Pupils should be taught to: Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a 	Use of Mathematics printable resources	Number lines, 100 squares, number cards, place value	https://www.purplemash.com/#tab/teachers/ printable_resources/printable_resources_mat hematics/printable_resources_maths_templat es
given number. Recognise the place value of each digit in a three-digit		Times Tables – in 100 squares, memory cards and dominoes.	https://www.purplemash.com/site#tab/teach ers/printable_resources/printable_resources mathematics/printable_resources_maths_tabl_ es
number (hundreds, tens, ones).	Ready-made activities in https://www.purplemash.co	Tens and Ones	https://www.purplemash.com/#app/pup/mat hs activities Y2 tens and ones
Compare and order numbers up to 1000.	m/#tab/pm- home/maths/numbers/num	Order Numbers (<,>,= signs)	https://www.purplemash.com/#app/pup/mat hs activities Y2 order numbers
Identify, represent and estimate numbers using	bers place value	Numbers to 1000	https://www.purplemash.com/#app/pup/mat hs activities Y3 numbers 1000
 different representations. Read and write numbers up to 1000 in numerals and in words. Solve number problems 		Place value in 3-digit numbers	https://www.purplemash.com/#app/pup/mat hs activities Y3 place value 3digits
		Multiples of 4	https://www.purplemash.com/#app/pup/mat hs activities Y3 multiples of4
		Multiples of 8	https://www.purplemash.com/#app/pup/mat hs activities Y3 multiples of8
and practical problems involving these ideas.		Numbers to 1000 in words	https://www.purplemash.com/#app/pup/mat hs activities Y3 numbers to1000 a
		Numbers to 1000	https://www.purplemash.com/#app/pup/mat hs activities Y3 numbers to1000 b





	Ta	1
	Converting between place value –	https://www.purplemash.com/site#app/pup/
	10,000	maths activities convertingbetweenplacevalu
		<u>e10000_L3</u>
	Converting to a number – Upto	https://www.purplemash.com/site#app/pup/
	10,000	maths_recognising10000_L3
2Calculate Place Value	Tens and Ones	
Spreadsheets.	https://www.purplemash.com/site	
Helps children recognise the	#app/pup/2calc place value TU	
place value of each digit in a	Hundreds, Tens and Ones	
three-digit number (tens,	https://www.purplemash.com/#ap	
ones). Use as a whiteboard	p/pup/2calc place value HTU	
resource or for individuals to	Thousands, Hundreds, Tens and	
challenge and test	Ones	
themselves.	https://www.purplemash.com/#ap	
	p/pup/2calc_place_value_ThHTU	
Use 2Quiz Sequencing	https://www.purplemash.com/site	https://www.purplemash.com/#tab/teachers/
questions to create some	#app/diyjs/2quiz	guides and resources/2diy 2quiz resources
number sequencing and		
cloze quizzes. Can the		
children continue the		
sequence in their books?		
Game Sequence Snake:	https://www.purplemash.com/#ap	
Eat the numbered balls to	p/games/seqsnake	
complete the sequence.		
Three levels of challenge	Score: 0 Level: 1	
that increases the	· · · · · · · · · · · · · · · · · · ·	
complexity of the numbers		
used and the speed. – use	a a b	
challenge B.	90000	
Use 2DIY Game Sequence	https://www.purplemash.com/site	Watch the help video in the app for a quick
Snake to make a game suited	#app/tools/2diy/Snake	overview of how to do this.
to your pupils. Or use ready-		
made games for other year		
groups (in 2s, 3s and 5s)		





Use 2Investigate example	https://www.purplemash.com/site	https://www.purplemash.com/site#tab/teach
databases to explore the	#app/tools/2inv	ers/guides and resources/2inv resourses
language of: equal to, more		
than, less than (fewer),		
most, least.		
2Race	https://www.purplemash.com/#ta	https://www.purplemash.com/#tab/pm-
Set up multiplayer games.	b/pm-home/games/2race_all	home/games/2race_all
Choose your track type and	(**	
question types; pre-set	 	
choices include:		
 One less/more than 		
 Odd/eve 	To the state of th	
 Comparison 		
Number bond		
 Addition 		
 Subtraction 		
 Multiplication 		
Division		
Times tables		
Use 2Investigate example	https://www.purplemash.com/site	https://www.purplemash.com/site#tab/teach
database Numbers to	#app/tools/2inv	ers/guides and resources/2inv resourses
investigate numbers that are	######################################	crs/galacs_alla_resources/2lliv_resourses
odd/even, divisible by 5 by		
using the search options in		
the database to display them		
pictorially.		
pictorially.		





Number – addition and subtraction			
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Pupils should be taught to: Add and subtract numbers mentally, including: A three-digit number and ones. A three-digit number and tens A three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	Ready-made activities in https://www.purplemash.com/site#tab/pm-home/maths/numbers/number addition subtraction	Number lines and 100 squares Number bonds 1	https://www.purplemash.com/#tab/teachers/ printable resources/printable resources mat hematics/printable resources maths templat es https://www.purplemash.com/#tab/teachers/ printable resources/printable resources mat hematics/printable resources maths templat es https://www.purplemash.com/site#app/pup/ maths activities Y3 numbers addition HTOp lusO https://www.purplemash.com/site#app/pup/ maths activities Y3 numbers addition HTOp lusT https://www.purplemash.com/site#app/pup/ maths activities Y3 numbers addition HTOp lusH https://www.purplemash.com/site#app/pup/ maths activities Y3 numbers addition HTOp lusH https://www.purplemash.com/site#app/pup/ maths activities Y3 numbers addition HTO minusO https://www.purplemash.com/site#app/pup/ maths activities Y3 numbers addition HTO minusT https://www.purplemash.com/site#app/pup/ maths activities Y3 numbers addition HTO
		Fact Families	<pre>minusH https://www.purplemash.com/site#app/pup/ maths factfamilies_L3</pre>





	Matching related + & - facts	https://www.purplemash.com/site#app/pup/maths_matchrelatingfacts_L3
Maths Quiz Generate your own maths quizzes. Test the children +, - or X of varying complexity. Use for ment maths practice and testing	al	https://www.purplemash.com/#tab/teach ers/guides and resources/2diy 2quiz res ources
2Race Set up multiplayer games. Choose your track type an question types; pre-set choices include: One less/more than Odd/eve Comparison Number bond Addition Subtraction Multiplication Division Times tables	https://www.purplemash.com/#ta b/pm-home/games/2race_all	https://www.purplemash.com/#tab/pm-home/games/2race all
Bond Bubbles Aim the bubble blower by clicking near a target bubble at the top of the screen. If the total of the bubble and the one it hits are the targenumber the bubbles will for three levels of challenge. Up to 20, 200 and finally 400.	Make 120 Make 1	Use Bond Bubbles Challenge B and levels 8-12.





Funky Platform Make the number on the calculator equal the to the target number by jumping on the SUM platforms. Gain bonus points by doing this in as few moves as possible. 2Calculate Random number sums example	https://www.purplemash.com/site #app/games/funkyplatform https://www.purplemash.com/#ap p/pup/maths activities Y4 additio	Three levels of challenge that increases the complexity of the numbers used and the speed. Use challenge B and levels 4 upwards Use 2Calculate random number tool to create problems for the children to solve. Set these
	<u>n_spreadsheet</u>	as 2dos. 4 + 12 = ② + 9 =? + 6 = ② + 8 =? + 8 + 2 =?
2Calculate Spreadsheets	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teachers/
Includes premade lesson	p/tools/2Calculate	guides and resources/2calculate resources
plans and videos to develop		
number problem-solving	Can be accessed by pupils from	
skills.	within 2Calculate tool.	
2Calculate Lessons: Two Number Test		
Even Numbers		
Counting Machine 1 & 2 Sequences		
A-Fish-Metic	https://www.purplemash.com/#ap	
Develop basic number	p/games/mg2/afishmetic	
skills with 4 levels of		
difficulty. Levels 1 and 2	Current: 2 Target: 5	
cover addition and	3 + 2 = 5	
subtraction, level 3		
multiplication and level 4		
advanced multiplication.	22	
•	1 13	





Number – multiplication and division			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for 	Use of Mathematics printable resources	Number lines and 100 squares	https://www.purplemash.com/#tab/teachers/printable resources/printable resources mat hematics/printable resources maths templat es
multiplication and division using the multiplication tables that they know, including for two-digit numbers times one- digit numbers, using mental		Times Tables	https://www.purplemash.com/site#tab/teach ers/printable resources/printable resources mathematics/printable resources maths_tabl es
 and progressing to formal written methods. Solve problems, including 	Ready-made activities in https://www.purplemash.co m/#tab/pm-	Multiplication Facts for 2,5,10 times tables.	https://www.purplemash.com/#app/pup/mat hs activities Y2 multiplication division facts 2 5 10
missing number problems, involving multiplication and	home/maths/numbers/num ber multiplication division	Sorting Multiples https://www.purplemash.com/#app/puphs activities Y3 venn multiples 3 x table pairs https://www.purplemash.com/site#a	https://www.purplemash.com/#app/pup/mat hs activities Y3 venn multiples
division, including positive integer scaling problems and			https://www.purplemash.com/site#app/pup/maths activities Y3 3x pairs
correspondence problems in which n objects are connected to m objects.		3 x table spreadsheet	https://www.purplemash.com/site#app/pup/maths activities Y3 3x spreadsheet
		4 x table pairs	https://www.purplemash.com/site#app/pup/maths activities Y3 4x pairs
		4 x table spreadsheet	https://www.purplemash.com/site#app/pup/maths activities Y3 4x spreadsheet
		8 x table pairs	https://www.purplemash.com/site#app/pup/maths activities Y3 8x pairs
		8 x table spreadsheet	https://www.purplemash.com/site#app/pup/maths activities Y3 8x spreadsheet
		Multiplication Facts for 3,4,8 times tables.	https://www.purplemash.com/#app/pup/mat hs activities Y3 multiplication facts 348





Use 2Investigate example database Numbers to investigate numbers that odd/even, divisible by 5 using the search options the database to display pictorially.	#app/tools/2inv ers/guides and resources/2inv resourses ers/guides and resources/2inv resourses ers/guides and resources/2inv resourses	
Maths Quiz Generate your own mat quizzes. Test the childre +, - or X of varying complexity.		
ZRace Set up multiplayer game Choose your track type question types; pre-set choices include: One less/more than Odd/eve Comparison Number bond Addition Subtraction Multiplication Division Times tables		
Table Toons The children develop the multiplication skills through song. The children creates their own musical playling a range of different songs. Games consolidation these skills. Ranging from to 12x	Watch the help video from within Table Toons to find out how to make full use of this tool. https://www.purplemash.com/#app/games/mg2/tabletoons	





<u>Dividers</u>	https://www.purplemash.com/site	Use Challenge A. Remember you can change
Divide the numbers before	#app/games/dividers	the level using the teachers tab at the top of
they reach the calculator by	Score: 0 Level: 1 20 8	the screen
firing factors at them. Three	15 12 2 3	
levels of challenge that	2 3	
increases the complexity of		
the numbers used and the	5	
speed.		
Factoroids	https://www.purplemash.com/site	Use Challenge A. Remember you can change
Break down the factors into	#app/games/factoroids	the level using the teachers tab at the top of
equal parts. Three levels of	Score: 0 Level: 1 P. A. D. S. D. S.	the screen
challenge that increases the		
complexity of the numbers	EXCEL SUIT	
used and the speed.	•	
2Calculate Spreadsheets	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teachers/
Includes premade lesson	p/tools/2Calculate	guides and resources/2calculate resources
plans and videos to develop		
number problem-solving	Function Machine	Ask the children to create their own number
skills.	Input Multiplier Output	machine spreadsheet.
2Calculate Lessons:	5 x 6 = 30 2-000	
Counting Machine 1 & 2		Create your own activities to set as 2dos.
Sequences		·
A-Fish-Metic	https://www.purplemash.com/#ap	
Develop basic number skills	p/games/mg2/afishmetic	
with 4 levels of difficulty.	Level 3 multiplication	
Levels 1 and 2 cover addition	Current: 2 Target: 8	
and subtraction, level 3		
multiplication and level 4	<u>u</u>	
advanced multiplication.	Click the bubbles and by to get to 8 feb.	
Pairs	https://www.purplemash.com/#ap	https://www.purplemash.com/site#tab/teach
Create your own matching	p/tools/2pairspm	ers/guides and resources/2diy 2quiz resour
pairs game of varying	pression aparticular	ces
complexity. Match times		<u></u>
•		
tables questions with their		
answer.		





Number – Fractions			
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
 Pupils should be taught to: Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Recognise, find and write fractions of a discrete set of objects: unit fractions and 	Use of Mathematics printable resources Fraction Wall Guide the falling fractions as they drop down from the top of the screen. Position the fractions so they contain a whole. Three levels of challenge that increases the complexity of the numbers	Fraction Walls https://www.purplemash.com/#app/games/fracwall	https://www.purplemash.com/#tab/teach ers/printable resources/printable resourc es mathematics/printable resources mat hs fractions Use Challenge A, Levels 2-4. You can change the level using the teachers tab at the top of the screen.
 non-unit fractions with small denominators. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. Recognise and show, using diagrams, equivalent fractions with small denominators. Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]. Compare and order unit fractions, and fractions 	used and the speed. Fractonio's Pizzeria Develop fraction skills with 3 levels of difficulty.	https://www.purplemash.com/#app/games/mg2/pizza Level 1: Pizza Rookie Twould like: 1 third cheese 2 thirds mushrooms on my pizza please.	Level 1: Pizza Rookie asks the children to use simple fractions to create a pizza. Level 2: Pizza Master encourages the children to use mixed fractions and Level 3: Pizza King converts fractions into percentages.
with the same	Ready-made activities in	Equivalent Fractions	https://www.purplemash.com/#app/pup/mat





denominators.	Ready-made activities in		hs activities Y2 fraction equivalence
 Solve problems that involve 	https://www.purplemash.co		
all of the above.	m/#tab/pm-	Fraction Quiz	https://www.purplemash.com/#app/pup/mat
	home/maths/numbers/num		hs_activities_Y3_fraction_equivalence
	<u>ber_fractions</u>	Finding Matching Expressions	https://www.purplemash.com/site#app/pup/
			maths findingmatchingexpressions L3
		Fraction Bar	https://www.purplemash.com/site#app/pup/
			maths_fractionbar_L3
		Fraction Of Number Lines	https://www.purplemash.com/site#app/pup/
			maths_fractionofnumberlines_L3
		Unit Fractions On A Number Line 1	https://www.purplemash.com/site#app/pup/
			maths_unitfractions_L3
		Unit Fractions On A Number Line 2	https://www.purplemash.com/site#app/pup/
			maths_unitfractions2_L3

Measurement			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2-D shapes. 	Length and Weight 2Calculate Spreadsheets Create a spreadsheet for pupils to record the lengths and weights of classroom objects. Show children how the spreadsheet can sort them automatically and order by length or weight.	https://www.purplemash.com/#ap p/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides_and_resources/2calculate_r esources





Γ	Add and a lateration	Longth and Waight	https://www.mumplemeet.com/	https://www.nurplomach.com/#tab/taas
	Add and subtract amounts	Length and Weight	https://www.purplemash.com/	https://www.purplemash.com/#tab/teac hers/guides and resources/2inv resours
	of money to give change,	2Investigate databases	#app/tools/2inv	
	using both £ and p in	Create a database of objects with		<u>es</u>
	practical contexts.	information including fields; length,		
	Tell and write the time	weight, capacity, waterproof (y/n),		
	from an analogue clock,	stackable (y/n).		
	including using Roman	Use the search facilities to practice		
		the use of >, < and = symbols.		
	numerals from I to XII, and	Time	Clock proformas, days of the week,	https://www.purplemash.com/#tab/pm-
	12-hour and 24-hour	Use of Mathematics printable	months of the year resources.	home/themes/mathssubject/printable re
	clocks.	resources	,	sources maths time
	 Estimate and read time 		Worksheets to accompany ready-	https://www.purplemash.com/#tab/pm-
	with increasing accuracy to		made activities	home/themes/mathssubject/printable re
	the nearest minute; record			sources maths time
	and compare time in terms		Roman Numerals	https://www.purplemash.com/site#app/l
	of seconds, minutes and			essonplans/info/printables maths templ
	hours; use vocabulary such			ates roman
	as o'clock, a.m./p.m.,	Time	What's the Time Mr. Wolf? – 10	https://www.purplemash.com/#tab/pm-
	morning, afternoon, noon	Ready-made activities in	progressive cloze activities with	home/maths/measures/time topic
	and midnight.	https://www.purplemash.com/#tab/	accompanying printable	
	_	pm-	worksheets	
	Know the number of	home/maths/measures/time_topic	Time Conversions	https://www.purplemash.com/#app/pup
	seconds in a minute and			/maths activities Y3 time conversions
	the number of days in each		Clock faces	https://www.purplemash.com/#app/pup
	month, year and leap year.			/maths activities Y3 time clock faces 1
	 Compare durations of 		Telling the time	https://www.purplemash.com/#app/pup
	events [for example to			/maths activities Y3 time clock faces 2
	calculate the time taken by		Pairs game	https://www.purplemash.com/#app/pup
	particular events or tasks].			/maths activities Y3 time clock faces p
	•			airs
			Writing Project	https://www.purplemash.com/#app/pup
				/time
				<u>ranc</u>
			Units of Time	https://www.purplemash.com/site#app/
1			Offics of Time	pup/maths converttime L4
		1		DODAMAINS CONVERTIME 14





	AM or PM	https://www.purplemash.com/site#app/pup/maths_useAMPM1_L4
Perimeter 2Calculate Spreadsheets Create a spreadsheet for pupils to record the lengths and widths of 2D shapes and create formulae to calculate perimeter (and area).	https://www.purplemash.com/#ap p/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources
Ready-made activities in https://www.purplemash.com/#tab/ pm- home/maths/measures/maths_mea	Convert units of measure Perimeter	https://www.purplemash.com/#app/pup/maths activities Y4 measures convert https://www.purplemash.com/#app/pup/maths activities Y4 measures perimet
Money 2Calculate Spreadsheets Use of the money images and currency formatting of cells to explore mathematics with money and calculate change. Use images to create a virtual shop and set simulated shopping tasks.	https://www.purplemash.com/#ap p/tools/2dragmulti	https://www.purplemash.com/#tab/teac hers/guides and resources/2diy 2quiz r esources
Money Ready-made activities in https://www.purplemash.com/#t ab/pm- home/maths/measures/maths m easures money	Shop multi-drag game Calculating change from 10p	https://www.purplemash.com/#app/pup/maths_activities_Y2_measures_money_drag https://www.purplemash.com/#app/pup/maths_activities_Y2_money_change_up_to10p_a https://www.purplemash.com/#app/pup/maths_activities_Y2_money_change_up_to10p_b
	Calculating change from 20p	https://www.purplemash.com/#app/pup/maths activities Y2 money change up to20p_a





		Later at II
		https://www.purplemash.com/#app/pup
		/maths_activities_Y2_money_change_up
		<u>to20p_b</u>
	Calculating change from 50p	https://www.purplemash.com/#app/pup
		/maths activities Y2 money change up
		<u>to50p_a</u>
		https://www.purplemash.com/#app/pup
		/maths activities Y2 money change up
		<u>to50p b</u>
	Calculating change from £1	https://www.purplemash.com/#app/pup
		/maths activities Y2 money change up
		to100p a
		https://www.purplemash.com/#app/pup
		/maths activities Y2 money change up
		to100p b
		https://www.purplemash.com/#app/pup
		/maths activities Y2 money change up
		to100p c
		https://www.purplemash.com/#app/pup
		/maths activities Y2 money change up
		to100p d
Financial Capability activities	https://www.purplemash.com/	https://www.purplemash.com/#app/
Aimed at Y1-6 a collection of a	#tab/pm-	pup/Financialcapability lessonideas
variety of activities	home/topics/financial educatio	bup/i mancialcapability lessonideas
THE	<u>n</u>	
ATT THE		
An G		
0		
Consitu		
Capacity		
2Calculate Spreadsheets		
Create a spreadsheet for pupils to		
record the capacities of classroom		
objects.		





Geometry – properties	of a shape		
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D 	Use of Mathematics printable resources	2D and 3D shape dominoes, memory games and posters	https://www.purplemash.com/#tab/teac hers/printable_resources/printable_reso urces_mathematics/printable_resources maths_shape
shapes in different orientations and describe	Ready-made activities at https://www.purplemash.com/#tab/	2D shape pairs game	https://www.purplemash.com/#app/pup/maths_activities_Y1_shape_2d
them.Recognise angles as a property of shape or a	<u>pm-</u> <u>home/maths/patterns and shapes/</u> <u>maths_shape_properties</u>	2D shape perimeter	https://www.purplemash.com/#app/pup/maths_activities_Y3_shape_2d_perimet_er_
description of a turn. Identify right angles,		3D shape pairs game	https://www.purplemash.com/#app/pup/maths_activities_Y3_shape_3d_pairs
recognise that two right angles make a half-turn, three make three quarters		Label 2D and 3D shapes	https://www.purplemash.com/#app/pup/maths activities Y3 shape labels
of a turn and four a complete turn; identify whether angles are greater		Sort into 2D and 3D shapes	https://www.purplemash.com/#app/pup/maths activities Y3 shape 2d 3 D quiz
than or less than a right angle.		Types of lines	https://www.purplemash.com/#app/pup/maths activities Y3 shape lines
Identify horizontal and vertical lines and pairs of perpendicular and parallel		3D shape branching database	https://www.purplemash.com/#app/pup/maths_activities_Y3_shape_3d_branching_db
lines.		Writing Project - 3D Shapes	https://www.purplemash.com/#app/pup/3dshapes
		Writing Project - Polygons	https://www.purplemash.com/#app/pup/polygons
		Writing Project - Triangle Properties	https://www.purplemash.com/#app/pup/triangles





	Paint ProjectBasic Shapes (2D)	https://www.purplemash.com/#app/pap/size_and_shape/basic_shapes
	Paint Project - Rectangles	https://www.purplemash.com/#app/pap /size and shape/rectangular things
	Paint ProjectCircles	https://www.purplemash.com/#app/pap/size_and_shape/round_things
	Paint Project - Squares	https://www.purplemash.com/#app/pap/size_and_shape/square_things
	Paint Project - Triangles	https://www.purplemash.com/#app/pap/size_and_shape/triangular_things
2Quiz Create 2Quiz labelling activities where the children label objects with their shapes (2D and 3D).	https://www.purplemash.com/site #tab/pm-home/tools/2diynew	https://www.purplemash.com/#tab/teac hers/guides_and_resources/2diy_2quiz_r esources
2Design and Make Pupils can use the 3D shapes in 2Design and Make to create nets with topic related designs, print them and fold them into the 3D shapes. Pupils could make 3D boxes in different 3D shapes.	https://www.purplemash.com/#app/tools/2dam	https://www.purplemash.com/#app/less onplans/info/2dam_guide
Use the ready-made templates to guide the object around the screen or begin to write a more complicated series of instructions Change the input method in settings to extend children's knowledge of directional control. There are several Challenges for	https://www.purplemash.com/ #app/tools/2go	https://www.purplemash.com/#tab/teachers/guides and resources/2golessonideas





children to try.		
Logo Write instructions of dev complexity to control the turtle using simple logo of	e on screen	https://www.purplemash.com/site#a pp/guides/2Logo Guide

Statistics			
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Pupils should be taught to: Interpret and present data using bar charts,	Ready-made activities at https://www.purplemash.com/site #tab/pm-home/maths/statistics	Graph activity	https://www.purplemash.com/#app/pup/maths activities Y3 statistics questions
pictograms and tables. Solve one-step and two-step		Interpreting Block Graphs	https://www.purplemash.com/site#app/ pup/maths Interpretdata2 L3
questions [for example, 'How		Interpreting Pictograms	https://www.purplemash.com/site#app/ pup/maths_evaluate1_L4
many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	2Investigate Create databases and watch the computer move the data cards around the screen to perform meaningful searches and sorts; Perform advanced and / or searches; Make reports on the database; Update data / pictures across a network instantly	https://www.purplemash.com/site #app/tools/2inv	https://www.purplemash.com/site#tab/teachers/guides and resources/2inv resources urses Use the ready-made databases and accompanying worksheets to practice problem solving using data.
	2Graph Create a range of bar, block, line and pie charts to show	https://www.purplemash.com/ #app/tools/2graph	https://www.purplemash.com/#app/guides/2Graph Guide





information gathered from elsewhere. **2Calculate Spreadsheets** https://www.purplemash.com/#ap https://www.purplemash.com/#tab/teac p/tools/2Calculate hers/guides and resources/2calculate r Includes premade lesson plans and videos to develop number problemesources solving skills. Create your own activities including scaled bar charts and tables. **Relevant 2Calculate Lessons:** Frequency Tables Can be accessed by pupils from within 2Calculate tool.





Year 4

Number – number and	place value		
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than 	Use of Mathematics printable resources	Number lines, 100 squares, number cards, place value	https://www.purplemash.com/#tab/teachers/printable resources/printable resources mathematics/printable resources maths templates
a given number.Count backwards through zero to include negative		Times Tables – in 100 squares, memory cards and dominoes.	https://www.purplemash.com/site#tab/teachers/printable_resources_mathematics/printable_resources_mathematics/printable_resources_mathematics_printable_resources_mathematics_printable_resources_mathematics_printable_resources_mathematics_printable_resources_mathematics_printable_resources_mathematics_printable_resources_mathematics_printable_resources_printable_res
numbers.Recognise the place value		Roman Numerals	https://www.purplemash.com/#app/lessonplans/info/printables_maths_templates_roman
of each digit in a four-digit number (thousands, hundreds, tens, and ones). Order and compare numbers beyond 1000.		Place Value Place Value: Place Value: Place Value: Th. H. T. O Place Value: M. Th. H. T. O	https://www.purplemash.com/#tab/teache rs/printable resources/printable resources mathematics/printable resources maths templates
 Identify, represent and estimate numbers using 	Ready-made activities in https://www.purplemash.co	Numbers to 1000	https://www.purplemash.com/#app/pup/math s_activities_Y3_numbers_1000
different representations.Round any number to the	m/#tab/pm- home/maths/numbers/num	Place value in 3-digit numbers	https://www.purplemash.com/#app/pup/math s activities Y3 place value 3digits
nearest 10, 100 or 1000.Solve number and practical	bers_place_value	Multiples of 6,7,9,25,1000	https://www.purplemash.com/#app/pup/math s_activities_Y4_multiples
problems that involve all of the above and with increasingly large positive		Count in multiples of 6, 7, 9, 25 and 1000 quiz	https://www.purplemash.com/#app/pup/m aths activities Y4 place value multples67 9251000
numbers.		Roman Numerals	https://www.purplemash.com/#app/pup/math s_activities_Y4_roman_numerals





Read Roman numerals to 100 (I to C) and know that	Roman Numerals	https://www.purplemash.com/#app/pup/maths activities Y4 place value roman nu
over time, the numeral		merals
system changed to include	Thousands	https://www.purplemash.com/#app/pup/math s_activities_Y4_place_value_thousands
the concept of zero and place value.	Rounding spreadsheet	https://www.purplemash.com/#app/pup/2calc
place value.	and a second sec	rounding
	Find 1000 less	https://www.purplemash.com/#tab/pm-
		home/maths/numbers/numbers place val
	F: -14000	ue
	Find 1000 more	https://www.purplemash.com/site#app/pu
	Order and compare numbers	p/maths activities Y4 1000 more https://www.purplemash.com/#app/pup/m
	beyond 1000	aths activities Y4 place value over 1000
	·	actio decivices 1. place value over 1000
	Values Of Distant Th	
	Values Of Digits – TTh	https://www.purplemash.com/site#app/pup/maths_recognisingplacevaluepatterns2_L
		<u>b/maths recognisingplacevaluepatterns2 L</u> <u>4</u>
		-
	Write numbers in figures -TTh	https://www.purplemash.com/site#app/pu
		p/maths fivedigitnumbersinwords L4
	Sort The Numbers -TTh	https://www.purplemash.com/site#app/pu
		p/maths recognisingplacevaluepatterns L4
	Number Patterns	https://www.purplemash.com/site#app/pu
		p/maths numberpatters L4
	Partitioning To Find Unknown 1	https://www.purplemash.com/site#app/pu
		p/maths partitioning L4
	Partitioning To Find Unknown 2	https://www.purplemash.com/site#app/pu
	20111121111	p/maths partitioning2 L4
	2Calculate Place Value	Tens and Ones





_	https://www.purplemash.com/site#app/p	Spreadsheets.	
	alc place value TU	Helps children recognise the	
	Hundreds, Tens and Ones	place value of each digit in a	
pup/2calc	https://www.purplemash.com/#app/pup	three-digit number (tens, ones).	
_	place value HTU	Use as a whiteboard resource or	
;	Thousands, Hundreds, Tens and Ones	for individuals to challenge and	
pup/2calc	https://www.purplemash.com/#app/pup	test themselves.	
	place value ThHTU		
pup/math	https://www.purplemash.com/#app/pup	2-Player place value game	
	s activities Y4 pv game		
p/pup/ma	https://www.purplemash.com/app/pu	Place value in 4-digits	
	ths activities Y4 place value 4digit		
ab/teacher	https://www.purplemash.com/site#tab/t	https://www.purplemash.com/sit	<u>2Calculate</u>
	s/guides and resources/2calculate resources/	e#app/tools/2Calculate	Explore formatting with
Ind to Round to 3 d.p.	Number Round to nearest 1000 nearest 100 n	0.00	numbers of decimal places;
	57873 985734002 58000 57900 57870 57874 57874.0 57873.99 5		relate to rounding.
7.89 4567.894	4507 854400000 5000 4600 4570 4568 4567.9 4567.89 4	Format Cell:	
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5.50 345.500	345 500000000 0 100 350 346 345.5 345.503		
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<u>ources</u>	uides and resources/2diy 2quiz resources	e#app/diyjs/2quiz	
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	home/games/2race_all	ab/pm-home/games/2race_all	, , ,
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		(a a	Odd/eve
			Comparison
			Number bond
ab/it reso reso rass rass so so so so so so so so so so so so s	ths activities Y4 place value 4digit https://www.purplemash.com/site#tab/fi s/guides and resources/2calculate reso Number Round to Round to Round to Round to Pound t	https://www.purplemash.com/sit e#app/tools/2Calculate Format Cell: 0.00 £0.00 % 1/2 Set decimal places ©	Use 2Quiz Sequencing questions to create some number sequencing and cloze quizzes. Can the children continue the sequence in their books? 2Race Set up multiplayer games. Choose your track type and question types; pre-set choices include: One less/more than Odd/eve Comparison





 Addition Subtraction Multiplication Division Times tables Use 2Go to create an activity where the children have to visit all of the numbers in the correct order. 	pp/tools/2go	https://www.purplemash.com/#tab/teachers/guides_and_resources/2golessonideas
Game Sequence Snake: Eat the numbered balls to complete the sequence. Three levels of challenge that increases the complexity of the numbers used and the speed. — use challenge B. Use 2DIY Game Sequence Snake to make a game suited to your pupils or use readymade games for other year groups (in 2s, 3s and 5s)	https://www.purplemash.com/#app/games/seqsnake https://www.purplemash.com/site#app/tools/2diy/Snake	Watch the help video in the app for a quick overview of how to do this.





Number – addition and subtraction				
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
 Pupils should be taught to: Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	Use of Mathematics printable resources	Number lines and 100 squares Place Value Place Value Place Value Place Value TRIAL TO	https://www.purplemash.com/#tab/teachers/printable resources/printable resources mat hematics/printable resources maths templat es https://www.purplemash.com/#tab/teachers/printable resources/printable resources mathematics/printable resources maths templat es	
	Ready-made activities in https://www.purplemash.com/site#tab/pm-home/maths/numbers/num	Missing Numbers In Equations 1 Missing Numbers In Equations 2	https://www.purplemash.com/site#app/pup/maths_numbersentences_L4 https://www.purplemash.com/site#app/pup/	
	ber_addition_subtraction	Random Number Addition Example	maths_numbersentences2_L4 https://www.purplemash.com/site#app/pup/ maths_activities_Y4_addition_spreadsheet	
	Maths Quiz Generate your own maths quizzes. Test the children on +, - or X of varying complexity. Use for mental maths practice and testing.	https://www.purplemash.com/#app/diyjs/2quiz	https://www.purplemash.com/#tab/teach ers/guides and resources/2diy 2quiz res ources	



Bond Bubbles

Aim the bubble blower by clicking near a target bubble at the top of the screen. If the total of the bubble and the one it hits are the target number the bubbles will fall. Three levels of challenge: Up to 20, 200 and finally 400.

http://www.purplemash.com/#ga mes/bondbubbles



Use Bond Bubbles Challenge B and levels 8-12.

Funky Platform

Make the number on the calculator equal the to the target number by jumping on the SUM platforms. Gain bonus points by doing this in as few moves as possible.

https://www.purplemash.com/site
#app/games/funkyplatform



Three levels of challenge that increases the complexity of the numbers used and the speed.

Use challenge B and levels 4 upwards

2Race

Set up multiplayer games. Choose your track type and question types; pre-set choices include:

- One less/more than
- Odd/eve
- Comparison
- Number bond
- Addition
- Subtraction
- Multiplication
- Division
- Times tables

https://www.purplemash.com/#ta b/pm-home/games/2race_all



https://www.purplemash.com/#tab/pm-home/games/2race all





2Calculate Spreadsheets Includes premade lesson plans and videos to develop number problem-solving skills. 2Calculate Lessons: Two Number Test Counting Machine 1 & 2 Sequences Magic Squares	https://www.purplemash.com/#ap p/tools/2Calculate	https://www.purplemash.com/#tab/teachers/guides_and_resources/2calculate_resources
2Calculate Random number additions example	https://www.purplemash.com/#ap p/pup/maths activities Y4 additio n_spreadsheet	Use 2Calculate random number tool to create problems for the children to solve. Set these as 2dos. 4 + 12 = ②
A-Fish-Metic Develop basic number skills with 4 levels of difficulty. Levels 1 and 2 cover addition and subtraction, level 3 multiplication and level 4 advanced multiplication.	https://www.purplemash.com/#app/games/mg2/afishmetic Current 2 Target 5 3 + 2 = 5	





Number – multiplication and division				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
 Pupils should be taught to: Recall multiplication and division facts for multiplication tables up to 12 × 12 Use place value, known and 	Use of Mathematics printable resources	Number lines and 100 squares Times Tables	https://www.purplemash.com/#tab/teachers/ printable resources/printable resources mat hematics/printable resources maths templat es https://www.purplemash.com/site#tab/teach ers/printable resources/printable resources	
derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1;	Ready-made activities in https://www.purplemash.com/#tab/pm-home/maths/numbers/number multiplication division Activities listed here are for Y4, use activities for other year groups to review and revise areas. Ag Ply Delta Ready-made activities in https://www.purplemash.com/#tab/pm-home/maths/numbers/numbers/number multiplication division Activities listed here are for Y4, use activities for other year groups to review and revise areas.	Multiplication Pairs	mathematics/printable resources maths tables es https://www.purplemash.com/#app/pup/maths activities Y4 multiplication pairs	
multiplying together three		Multiplication quiz	https://www.purplemash.com/#app/pup/mat hs activities Y4 multiplication quiz	
numbers. • Recognise and use factor Ac		Multiplication facts spreadsheet	https://www.purplemash.com/app/pup/maths activities Y4 multiplication spreadsheet	
mental calculations.Multiply two-digit and three-digit numbers by a		Multiplication fact pairs	https://www.purplemash.com/app/pup/maths activities Y4 multiplication pairs 2	
 one-digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one 		Multiplication Quiz	https://www.purplemash.com/app/pup/maths activities Y4 multiplication quiz 2	
		Using Known Facts 1	https://www.purplemash.com/site#app/pup/maths_usingknowfacts_L4	
digit, integer scaling problems and harder correspondence problems		Using Known Facts 2	https://www.purplemash.com/site#app/pup/maths_usingknowfacts2_L4	
such as n objects are		Dividing By 10 – 2Calcualte	https://www.purplemash.com/site#app/pup/maths_usingdivisionby10_L4	





connected to m objects.			
-		Dividing By 10 – 2Quiz	https://www.purplemash.com/site#app/p
			up/maths usingdivisionby102 L4
		Word Problems	https://www.purplemash.com/site#app/pup/maths wordproblems L4
	Table Toons The children develop their multiplication skills through song. The children create their own musical playlist using a range of different songs. Games consolidate	https://www.purplemash.com/#tab/pm-home/games/tabletoons prince the property of the property	Watch the help video from within Table Toons to find out how to make full use of this tool. https://www.purplemash.com/#app/games/mg2/tabletoons
	these skills. Ranging from 2x to 12x	OK 9 Games	
	2Race Set up multiplayer games. Choose your track type and question types; pre-set choices include: One less/more than Odd/eve Comparison Number bond Addition Subtraction Multiplication Division Times tables	https://www.purplemash.com/#tab/pm-home/games/2race_all	https://www.purplemash.com/#tab/pm-home/games/2race_all
	Dividers Divide the numbers before they reach the calculator by firing factors at them. Three levels of challenge that	https://www.purplemash.com/site #app/games/dividers	Use Challenge A and B. You can change the level using the teachers tab at the top of the screen.



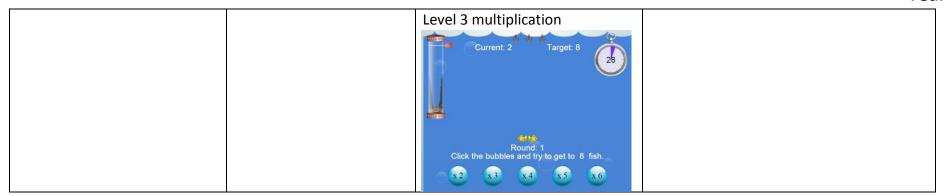


increases the complexity of the numbers used and the 15 12 speed. Use Challenge A and B. You can change the **Factoroids** https://www.purplemash.com/s Break down the factors into level using the teachers tab at the top of the ite#app/games/factoroids equal parts. Three levels of screen challenge that increases the complexity of the numbers used and the speed. **2Calculate Spreadsheets** https://www.purplemash.com/#ap https://www.purplemash.com/#tab/teachers/ p/tools/2Calculate guides and resources/2calculate resources Includes premade lesson plans and videos to develop number problem-solving Ask the children to create their own number skills. machine spreadsheet. Create your own activities to set as 2dos. **2Calculate Lessons:** Counting Machine 1 & 2 Sequences https://www.purplemash.com/#ap A-Fish-Metic Develop basic number skills p/games/mg2/afishmetic with 4 levels of difficulty. Levels 1 and 2 cover addition and subtraction, level 3 multiplication and level 4 advanced multiplication.





Year 4







Number – Fractions				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
Pupils should be taught to: Recognise and show, using diagrams, families of common equivalent	Use of Mathematics printable resources	Fraction Walls	https://www.purplemash.com/#tab/teach ers/printable resources/printable resourc es mathematics/printable resources mat hs fractions	
 Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. 	Fraction Wall Guide the falling fractions as they drop down from the top of the screen. Position the fractions so they contain a whole. Three levels of challenge that increases the complexity of the numbers used and the speed.	https://www.purplemash.com/#app/games/fracwall	Use Challenge A, Levels 2-4. You can change the level using the teachers tab at the top of the screen.	
	Fractonio's Pizzeria Develop fraction skills with 3 levels of difficulty.	https://www.purplemash.com/#ap p/games/mg2/pizza Level 2: Pizza Master	Level 1: Pizza Rookie asks the children to use simple fractions to create a pizza. Level 2: Pizza Master encourages the children to use mixed fractions and level 3: Pizza King converts fractions into percentages.	
 Add and subtract fractions with the same denominator 	Ready-made activities in https://www.purplemash.co	Tenths and Hundredths Pairs	https://www.purplemash.com/#app/pup/mat hs activities Y4 fractions tenths hundredths	
 Recognise and write decimal equivalents of any 	m/#tab/pm- home/maths/numbers/num	Fraction Quiz	https://www.purplemash.com/#app/pup/mat hs activities Y3 fraction equivalence	
number of tenths or hundredths.	ber_fractions	Decimals and fractions quiz	https://www.purplemash.com/#app/pup/mat hs activities Y4 fractions and decimals	
 Recognise and write decimal equivalents to ¼, 		Rounding spreadsheet	https://www.purplemash.com/#app/pup/2cal c_rounding	
½, ¾.		Rounding placing activity	https://www.purplemash.com/#app/pup/mat hs activities Y4 rounding	





•	Find the effect of dividing a		Comparing fractions	https://www.purplemash.com/#app/pup/mat hs activities Y4 fractions compare
	one- or two-digit number by 10 and 100, identifying		Comparing decimals	https://www.purplemash.com/app/pup/ maths activities Y4 compare decimals
•	 the value of the digits in the answer as ones, tenths and hundredths. Round decimals with one decimal place to the nearest whole number. Compare numbers with the same number of decimal 		Hundredths	https://www.purplemash.com/app/pup/maths activities Y4 fractions hundredths
•			Mixed & Improper Fractions – Sort Mixed & Improper Fractions – Pair	https://www.purplemash.com/site#app/pup/maths mixedNumber L4 https://www.purplemash.com/site#app/pup/maths mixedNumber2 L4
•	places up to two decimal places. Solve simple measure and money problems involving	2DIY - Placing Place numbers or objects in their correct place.	https://www.purplemash.com/site #app/tools/2pairspm	https://www.purplemash.com/#tab/teachers/guides and resources/2diy 2quiz resources Round numbers with one decimal place to the nearest whole number.
	two decimal places Expl num relat Expl fract deci or 1 com	Explore formatting with numbers of decimal places; relate to rounding. Explore formatting as fractions. Convert to decimals and multiply by 10 or 100. Use the tool to compare fractions and decimals.	Format Cell: 0.00 £0.00 % 1/2 Set decimal places 2	https://www.purplemash.com/site#tab/teach ers/guides and resources/2calculate resourc es





Measurement			
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Pupils should be taught to: Convert between different units of measure [for	Use of Mathematics printable resources	Clock proformas, days of the week, months of the year resources.	https://www.purplemash.com/#tab/pm-home/themes/mathssubject/printable_re_sources_maths_time
 example, kilometre to metre; hour to minute] Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. 	Conversions 2Calculate Spreadsheets Create a conversion tool; see Upper KS2 Lesson – Miles to Kilometers. Apply this to other units as well.	https://www.purplemash.com/#app /tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources
 Find the area of rectilinear shapes by counting squares. Estimate, compare and calculate different measures, including money in pounds and pence 	Perimeter 2Calculate Spreadsheets Create a spreadsheet for pupils to record the lengths and widths of 2D shapes and create formulae to calculate perimeter (and area).	https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources
Read, write and convert time between analogue and digital 12- and 24-hour clocks.	Ready-made activities in https://www.purplemash.com/#ta b/pm- home/maths/measures/maths_me asures_all	Convert units of measure Perimeter	https://www.purplemash.com/#app/pup/maths activities Y4 measures convert https://www.purplemash.com/#app/pup/maths activities Y4 measures perimeters
 Solve problems involving converting from hours to minutes; minutes to seconds; years to months; 	usures_an	Convert between different units of measure quiz	https://www.purplemash.com/#app/pup/maths activities Y4 measures convert 2
weeks to days.		Area of shapes	https://www.purplemash.com/site#a pp/pup/maths compobj L4



Area 2Calculate Spreadsheets Use ready-made activities Sheep Shapes (lower KS2) and Area (Upper KS2).	https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides_and_resources/2calculate_r esources
Money 2Calculate Spreadsheets Use of the money images and currency formatting of cells to explore mathematics with money and calculate change. Use images to create a virtual shop and set simulated shopping tasks. Financial Capability activities	https://www.purplemash.com/#a pp/tools/2dragmulti https://www.purplemash.com/#t	https://www.purplemash.com/#tab/teachers/guides and resources/2diy2quiz resources
Aimed at Y1-6 a collection of a variety of activities	ab/pm- home/topics/financial education	pup/Financialcapability lessonideas
<u>Time</u> Ready-made activities in	Time Conversions	https://www.purplemash.com/#app/pup/maths activities Y3 time conversions
https://www.purplemash.com/#ta b/pm-	Clock faces	https://www.purplemash.com/#app/pup/maths activities Y3 time clock faces 1
home/maths/measures/time_topic	Telling the time	https://www.purplemash.com/#app/pup/maths activities Y3 time clock faces 2
	Pairs game	https://www.purplemash.com/#app/pup/maths_activities_Y3_time_clock_faces_p_airs
	Years and Months	https://www.purplemash.com/site#app/ pup/maths converttime L4
	Convert Between Units Of Time	https://www.purplemash.com/site#app/ pup/maths converttime2 L4
	Time Problems	https://www.purplemash.com/site#app/pup/maths_useAMPM2_L4





Geometry – properties of a shape			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
Pupils should be taught to: Compare and classify geometric shapes, including quadrilaterals	Use of Mathematics printable resources	2D and 3D shapes	https://www.purplemash.com/#tab/teac hers/printable resources/printable reso urces mathematics/printable resources maths shape
 and triangles, based on their properties and sizes. Identify acute and obtuse angles and compare and order angles up to two right angles by size. 	Symmetry - Paint Projects 1 line of symmetry Reflections Textures	https://www.purplemash.com/#app/tools/2painthtps://www.purplemash.com/#app/pap/pattern/hr_reflecthttps://www.purplemash.com/#app/pap/pattern/hr_ref_texture	
 Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple 	Rangoli patterns	https://www.purplemash.com/#ta b/pm- home/themes/mathssubject/patte rns_and_shapes	
symmetric figure with respect to a specific line of	Ready-made activities at https://www.purplemash.com/#tab/	3D shape pairs game	https://www.purplemash.com/#app/pup/maths_activities_Y3_shape_3d_pairs
symmetry.	pm- home/maths/patterns_and_shapes/ maths_shape_properties	3D shape branching database	https://www.purplemash.com/#app/pup /maths activities Y3 shape 3d branchin g db
		2D shape pairs game	https://www.purplemash.com/#app/pup /maths activities Y4 shape classify sha pes
		Acute and Obtuse angels	https://www.purplemash.com/app/pup/maths activities Y4 shape angles https://www.purplemash.com/app/pup/
		Lines of Symmetry	maths activities Y4 shape Lines Symm etry
		Shape slideshow	https://www.purplemash.com/app/pup/maths activities Y4 shape properties



	https://www.purplemash.com/app/pup/maths activities Y4 shape properties of
Name 2D shapes 2	<u>uiz</u>
	https://www.purplemash.com/app/pup/
Name 2D shapes 3	maths activities Y4 shape pairs
	https://www.purplemash.com/app/pup/
Ordering Angles	maths activities Y4 shape angles com
	<u>are</u>
	https://www.purplemash.com/app/pup/
Regular or Irregular Poly	ygons <u>maths activities Y4 shape angles com</u>
	are 2
Writing Project - Polygo	ns <u>https://www.purplemash.com/#app/pup</u>
	<u>/polygons</u>
Writing Project - Triangl	e <u>https://www.purplemash.com/#app/pu</u>
Properties	<u>/triangles</u>
Writing Project - Quadri	
	<u>/quadrilaterals</u>





Geometry – position and direction			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Describe positions on a 2-D grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down. Plot specified points and draw sides to complete a given polygon. 	Use the ready-made templates to guide the object around the screen or begin to write a more complicated series of instructions Change the input method in settings to extend children's knowledge of directional control. There are several Challenges for children to try.	https://www.purplemash.com/ #app/tools/2go 45 degrees 1 2 3 4 5 6	https://www.purplemash.com/#tab/teachers/guides and resources/2golessonideas
	Logo Write instructions of developing complexity to control the on screen turtle using simple logo commands	https://www.purplemash.com/ #app/tools/2logo	https://www.purplemash.com/site#a pp/guides/2Logo Guide
	Use of Mathematics printable resources		https://www.purplemash.com/site#ta b/teachers/printable resources/print able resources mathematics/printabl e resources maths shape





Ready-made activities at		https://www.purplemash.com/site#a
https://www.purplemash.com/sit	Coordinates	pp/pup/maths girdref L5
e#tab/pm-		
home/maths/patterns and shap		
es/maths shape position directi		
<u>on</u>		
	Coordinates 2	https://www.purplemash.com/site#app/
		pup/maths_gridref2_L5





Statistics			
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Pupils should be taught to: Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and	2Investigate Create databases and watch the computer move the data cards around the screen to perform meaningful searches and sorts; Perform advanced and / or searches; Make reports on the database; Update data / pictures across a network instantly	https://www.purplemash.com/s ite#app/tools/2inv	https://www.purplemash.com/site#tab/t eachers/guides and resources/2inv resources Use the ready-made databases and accompanying worksheets to practice problem solving using data.
difference problems using information presented in bar charts, pictograms, tables and other graphs.	2Graph Create a range of bar, block, line and pie charts to show information gathered from elsewhere.	https://www.purplemash.com/ #app/tools/2graph	https://www.purplemash.com/#app/guides/2Graph Guide
	2Calculate Spreadsheets Includes premade lesson plans and videos to develop number problemsolving skills. Create your own activities including scaled bar charts and tables. Relevant 2Calculate Lessons: Intermediate Points (Upper KS2)	https://www.purplemash.com/#app/tools/2Calculate Can be accessed by pupils from within 2Calculate tool.	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources
	Ready-made activities at https://www.purplemash.com/site#t ab/pm-home/maths/statistics	Interpreting Block Graphs Interpreting Pictograms	https://www.purplemash.com/site#app/pup/maths Interpretdata2 L3 https://www.purplemash.com/site#app/pup/maths evaluate1 L4





Number – number and place value			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. 	Use of Mathematics printable resources	Number lines, 100 squares, number cards, place value Roman Numerals Place Value Place Value Place Value Place Value Place Value Place Value Place Value	https://www.purplemash.com/#tab/teachers/ printable_resources/printable_resources_mat hematics/printable_resources maths templat es https://www.purplemash.com/#app/lessonpl ans/info/printables_maths_templates_roman https://www.purplemash.com/#tab/teach ers/printable_resources/printable_resourc es_mathematics/printable_resources_mat hs_templates
Interpret negative numbers in context, count forwards and backwards with	Ready-made activities in https://www.purplemash.co m/#tab/pm- home/maths/numbers/num	Numbers to 1,000,000 Roman Numerals	https://www.purplemash.com/#app/pup/mat hs activities Y5 large numbers https://www.purplemash.com/#app/pup/mat hs activities Y5 roman numerals
positive and negative whole numbers, including through zero.	bers place value Listed are those designed for	Multiples of 6,7,9,25,1000	https://www.purplemash.com/#app/pup/mat hs activities Y4 multiples
Round any number up to 1 000 000 to the nearest 10,	Y5, look at previous years resources for revision of topics	Thousands	https://www.purplemash.com/#app/pup/mat hs activities Y4 place value thousands
100, 1000, 10 000 and 100 000.		Rounding spreadsheet	https://www.purplemash.com/#app/pup/2cal c_rounding
Solve number problems and practical problems that		Counting in steps of powers of ten spreadsheet	https://www.purplemash.com/app/pup/math s_activities Y5_place_value_powers
involve all of the above.Read Roman numerals to		Rounding to nearest 100	https://www.purplemash.com/site#app/pup/ maths_useestimationandrounding1_L5
1000 (M) and recognise		Rounding to Estimate	https://www.purplemash.com/site#app/pup/ maths_useestimationandrounding3_L5





years written in Roman numerals.		Comparing and Ordering Decimals	https://www.purplemash.com/site#app/pup/maths Compareorderrepresentdecimals L5
numeruis.		Locating Decimals – Number line	https://www.purplemash.com/site#app/pup/maths locatingdecimalsonnumberline L5
		Number Sequences	https://www.purplemash.com/site#app/pup/ maths_describecontinuepatterns1_L5
		2Calculate Place Value Spreadsheets. Help children recognise the place value of each digit. Use as a whiteboard resource or for individuals to challenge and test themselves.	Thousands, Hundreds, Tens and Ones https://www.purplemash.com/#app/pup/2calconglector-lambda com/#app/pup/2calconglector-lambda com/#app/pup/2calconglector-lambda com/#app/pup/2calconglector-lambda https://www.purplemash.com/#app/pup/2calconglector-lambda https://www.purplemash.com/#app/pup/2calconglector-lambda com/#app/pup/2calconglector-lambda https://ecalconglector-lambda https://ecalconglector-lambda





 Odd/eve Comparison Number bond Addition Subtraction Multiplication Division Times tables 		
Game Sequence Snake: Eat the numbered balls to complete the sequence. Three levels of challenge that increases the complexity of the numbers used and the speed. – use challenge C.	https://www.purplemash.com/#app/games/seqsnake	
Use 2DIY Game Sequence Snake to make a game suited to your pupils.	https://www.purplemash.com/site #app/tools/2diy/Snake	Watch the help video in the app for a quick overview of how to do this.





Number – addition and subtraction			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
 Pupils should be taught to: Add and subtract whole numbers with more than 4 digits, including using 	Use of Mathematics printable resources	Number lines and 100 squares	https://www.purplemash.com/#tab/teachers/printable resources/printable resources mat hematics/printable resources maths templat es
formal written methods (columnar addition and subtraction). • Add and subtract numbers		Place Value Place Value: M. Th. H. T. O	https://www.purplemash.com/#tab/teachers/ printable_resources/printable_resources_mat hematics/printable_resources_maths_templat es
 mentally with increasingly large numbers. Use rounding to check answers to calculations and determine, in the context 	Maths Quiz Generate your own maths quizzes. Test the children on +, - or X of varying complexity. Use for mental maths practice and testing.	https://www.purplemash.com/#ap p/diyjs/2quiz	https://www.purplemash.com/#tab/teachers/guides and resources/2diy 2quiz resources
of a problem, levels of accuracy. • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	2Race Set up multiplayer games. Choose your track type and question types; pre-set choices include: One less/more than Odd/eve Comparison Number bond Addition Subtraction Multiplication Division Times tables	https://www.purplemash.com/#tab/pm-home/games/2race_all	https://www.purplemash.com/#tab/pm-home/games/2race_all





Bond Bubbles Aim the bubble blower by clicking near a target bubble at the top of the screen. If the total of the bubble and the one it hits are the target number the bubbles will fall. Three levels of challenge: Up to 20, 200 and finally 400.	http://www.purplemash.com/#ga mes/bondbubbles Sorre: 0 Wake 120 Was to the first the	Use Bond Bubbles Challenge C.
Funky Platform Make the number on the calculator equal the to the target number by jumping on the SUM platforms. Gain bonus points by doing this in as few moves as possible.	https://www.purplemash.com/site #app/games/funkyplatform	Three levels of challenge that increases the complexity of the numbers used and the speed. Use challenge C.
2Calculate Random number sums example	https://www.purplemash.com/#ap p/pup/maths activities Y5_additio n_spreadsheet	Use 2Calculate random number tool to create problems for the children to solve. Set these as 2dos.
2Calculate Missing Numbers	https://www.purplemash.com/s ite#app/pup/maths Efficientme ntal1 L5	Find the missing numbers. 354984 + 864906 = ② 566922 + ② = 977973 ③ + 415681 = 735470 285808 + 684949 = ③ 302459 + 790203 = ② ③ + 149033 = 1088660





2Calculate Spreadsheets Includes premade lesson plans and videos to develop number problem-solving skills. 2Calculate Lessons: Number Stories Making Formulae	https://www.purplemash.com/#app/tools/2Calculate Can be accessed by pupils from within 2Calculate tool.	https://www.purplemash.com/#tab/teachers/guides_and_resources/2calculate_resources
A-Fish-Metic Develop basic number skills with 4 levels of difficulty. Levels 1 and 2 cover addition and subtraction, level 3 multiplication and level 4 advanced multiplication.	https://www.purplemash.com/#app/games/mg2/afishmetic Current: 2 Target: 5 3 + 2 = 5 25	





Number – multiplication and division			
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources
Statement			
Pupils should be taught to: • Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Use of Mathematics printable resources	Number lines and 100 squares	https://www.purplemash.com/#tab/teachers/printable resources/printable resources mat hematics/printable resources maths templat es
 Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) 		Times Tables	https://www.purplemash.com/site#tab/teach ers/printable_resources/printable_resources mathematics/printable_resources_maths_tabl es
 numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19. 		Prime, Square and Cubed numbers Special Numbers: 123	https://www.purplemash.com/#tab/teach ers/printable resources/printable resourc es mathematics/printable resources mat hs templates
Multiply numbers up to 4 digits by a one- or two-digit	Ready-made activities in https://www.purplemash.co	Prime Numbers	https://www.purplemash.com/#app/pup/maths activities Y5 prime numbers
number using a formal written method, including long multiplication for two-	m/#tab/pm- home/maths/numbers/num ber multiplication division	Prime Numbers 2	https://www.purplemash.com/site#app/pup/maths_identcomposite_L6
digit numbers. • Multiply and divide numbers mentally drawing	Activities listed here are for Y5, use activities for other year groups to review and	Decomposing large numbers	https://www.purplemash.com/#app/pup/maths activities Y5 decompose large numbers
upon known facts. • Divide numbers up to 4	revise areas.	Multiplication of HTU x U	https://www.purplemash.com/#app/pup/ maths activities Y5 multiplication
digits by a one-digit number using the formal		Square and cube numbers	https://www.purplemash.com/#app/pup/mat hs activities Y5 square cube numbers
written method of short		Multiplying and dividing by powers of 10	https://www.purplemash.com/site#app/pup/maths activities Y5 place value powers





	division and interpret remainders appropriately for the context.		Multiplying Numbers	https://www.purplemash.com/site#app/pup/maths_solveproblemsinvolvingmultiplicaiton_L5
•	Multiply and divide whole numbers and those involving decimals by 10,		Multiplication HTU x U	https://www.purplemash.com/site#app/pup/maths_solveproblemsinvolvingmultiplicaiton3_L5
•	100 and 1000. Recognise and use square numbers and cube		Multiplying HTU x TU	https://www.purplemash.com/site#app/pup/ maths_solveproblemsinvolvingmultiplicaiton2 _L5
	numbers, and the notation for squared (2) and cubed		Multiplication 2 Digit	https://www.purplemash.com/site#app/pup/maths Efficientmental2 L5
	(³).		Division with remainders	https://www.purplemash.com/site#app/pup/maths_solveproblemsinvolvingdivision_L5
•	Solve problems involving multiplication and division		Division whole number	https://www.purplemash.com/site#app/pup/maths_solveproblemsinvolvingdivision2_L5
	including using their knowledge of factors and		Division by a single number	https://www.purplemash.com/site#app/pup/maths_solveproblemsinvolvingdivision3_L5
	multiples, squares and cubes.		Division questions	https://www.purplemash.com/site#app/pup/maths_findunknownquantitiesDivision_L5
•	0	Table Toons The children develop their multiplication skills through song. The children create their own musical playlist using a range of different songs. Games consolidate these skills. Ranging from 2x to 12x	https://www.purplemash.com/#tab/pm-home/games/tabletoons OK Games	Watch the help video from within Table Toons to find out how to make full use of this tool. https://www.purplemash.com/#app/games/mg2/tabletoons
	multiplication and division, including scaling by simple fractions and problems involving simple rates.	2Race Set up multiplayer games. Choose your track type and question types; pre-set choices include: One less/more than Odd/eve	https://www.purplemash.com/#tab/pm-home/games/2race_all	https://www.purplemash.com/#tab/pm-home/games/2race_all





 Comparison Number bond Addition Subtraction Multiplication Division Times tables Dividers Divide the numbers before they reach the calculator by firing factors at them. Three levels of challenge that increases the complexity of the numbers used and the speed. 	https://www.purplemash.com/site #app/games/dividers Secret Front 1 20 8 15 12 2 3	Use Challenge C. You can change the level using the teachers tab at the top of the screen.
Factoroids Break down the factors into equal parts. Three levels of challenge that increases the complexity of the numbers used and the speed.	https://www.purplemash.com/s ite#app/games/factoroids	Use Challenge C. You can change the level using the teachers tab at the top of the screen
2Calculate Spreadsheets Includes premade lesson plans and videos to develop number problem-solving skills. Create your own activities to set as 2dos.	https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/teachers/guides_and_resources/2calculate_resources Ask the children to create their own number machine spreadsheet.
2Calculate Create activities using 2Calculate set as 2dos using the =? tool to verify their answers.	https://www.purplemash.com/site #app/tools/2Calculate	https://www.purplemash.com/site#tab/teach ers/guides_and_resources/2calculate_resourc es





Number – Fractions				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
Pupils should be taught to: Compare and order fractions whose denominators are all multiples of the same	Use of Mathematics printable resources Fraction Wall	Fraction Walls https://www.purplemash.com/	https://www.purplemash.com/#tab/teachers /printable resources/printable resources m athematics/printable resources maths fract ions Use Challenge C. You can change the level using	
number. Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise mixed numbers and improper fractions and	Guide the falling fractions as they drop down from the top of the screen. Position the fractions so they contain a whole. Three levels of challenge that increases the complexity of the numbers used and the speed.	#app/games/fracwall Score: 1 Level: 1 real +	the teachers tab at the top of the screen.	
convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = \frac{1}{5}$]	Fractonio's Pizzeria Develop fraction skills with 3 levels of difficulty.	https://www.purplemash.com/ #app/games/mg2/pizza Level 2: Pizza Master	Level 1: Pizza Rookie asks the children to use simple fractions to create a pizza. Level 2: Pizza Master encourages the children to use mixed fractions and level 3: Pizza King converts fractions into percentages.	
 Add and subtract fractions with the same denominator and denominators that are 	Ready-made activities in https://www.purplemash.co m/#tab/pm- home/maths/numbers/num	Tenths and Hundredths Pairs Decimals and fractions quiz	https://www.purplemash.com/#app/pup/maths activities Y4 fractions tenths hundredths https://www.purplemash.com/#app/pup/maths activities Y4 fractions and decimals	
multiples of the same number.	ber_fractions	Comparing fractions	https://www.purplemash.com/#app/pup/maths_activities Y4 fractions compare	
 Multiply proper fractions and mixed numbers by 		Rounding spreadsheet	https://www.purplemash.com/#app/pup/2calc_r ounding	
whole numbers, supported by materials and diagrams.		3 decimal places	https://www.purplemash.com/app/pup/mat hs activities Y5 3 decimal places	

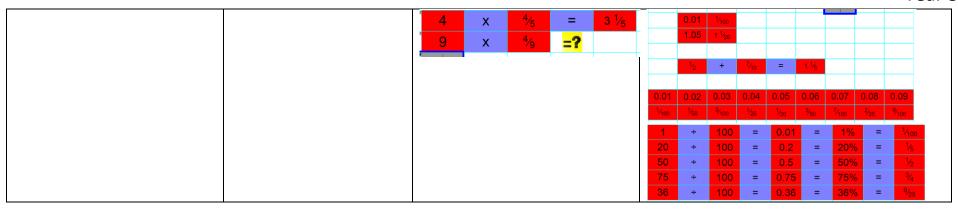




numbers a	write decimal s fractions [for $0.71 = \frac{71}{100}$].		Compare fractions	https://www.purplemash.com/app/pup/maths_a ctivities_Y5_compare_fractions
 Recognise 	-		Rounding To Nearest Whole No	https://www.purplemash.com/site#app/pup/mat hs_useestimationandrounding2_L5
them to te	nths, hundredths		Fraction Equations	https://www.purplemash.com/site#app/pup/mat hs modellingsolvingproblems L5
Round dec	al equivalents. imals with two		Fraction Calculations	https://www.purplemash.com/site#app/pup/mat hs modellingsolvingproblems2 L5
decimal pl nearest wh	aces to the nole number and		Comparing Mixed Numbers	https://www.purplemash.com/site#app/pup/mat hs_unitfractions_L5
to one ded • Read, write	imal place e, order and		Mixed and Improper Fractions – Sort	https://www.purplemash.com/site#app/pup/mat hs mixedNumber L4
-	umbers with up ecimal places.		Mixed and Improper Fraction – Pair	https://www.purplemash.com/site#app/pup/mat hs mixedNumber2 L4
 Solve prob number up decimal pl 		2Calculate Explore formatting with numbers of decimal places;	https://www.purplemash.com/site #app/tools/2Calculate	https://www.purplemash.com/site#tab/teachers/guides and resources/2calculate resources
 Recognise symbol (% 	the per cent) and understand ent relates to f parts per	relate to rounding.	Format Cell: 0.00 £0.00 % 1/2 Set decimal places 2	
percentage with denote as a decim Solve prob require kn percentage equivalent	es as a fraction minator 100, and al. lems which owing and decimal s of ½, ¼, ¹/5, ²/5, ose fractions with ator of a	2Calculate Explore formatting as fractions and percentages. Convert to decimals and multiply by 10 or 100.	https://www.purplemash.com/site #app/tools/2Calculate Format Cell: 0.00 £0.00 % 1/2 Set decimal places 2 2/5 + 4/5 = 1 1/5 8/6 + 4/9 = 2	https://www.purplemash.com/site#tab/teachers /guides and resources/2calculate_resources Fraction Decimal Warev vs to Water by 1/2 1/4 1/4 1/4 1/4 1/5 1/6 1/6 1/6 1/7 1/6 1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7 1/7







Measurement	Measurement				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources		
Statement					
Pupils should be taught to:Convert between different units of metric measure	Conversions 2Calculate Spreadsheets Create a conversion tool; see Upper	https://www.purplemash.com/#ap p/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources		
(for example, kilometre and metre; centimetre and	KS2 Lesson – Miles to Kilometers. Apply this to other units as well. Perimeter	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teac		
metre; centimetre and millimetre; gram and kilogram; litre and millilitre). • Understand and use approximate equivalences	2Calculate Spreadsheets Create a spreadsheet for pupils to record the lengths and widths of 2D shapes and create formulae to calculate perimeter (and area). Create composite shapes and apply	p/tools/2Calculate	hers/guides and resources/2calculate r esources		
between metric units and common imperial units such as inches, pounds and pints.	these formulae. Ready-made activities in https://www.purplemash.com/#tab/ pm- home/maths/measures/maths_mea	Convert units of measure Units of Measurement	https://www.purplemash.com/#app/pup/maths_activities_Y4_measures_convert https://www.purplemash.com/site#app/pup/maths_recognisingmeasure_L5		
 Measure and calculate the perimeter of composite 	sures_all	Perimeter	https://www.purplemash.com/#app/pup		





				real 3
	rectilinear shapes in centimetres and metres.			<u>/maths_activities_Y5_measures_perimet_er</u>
•	Calculate and compare the		Area	https://www.purplemash.com/#app/pup/maths activities Y5 measures area
	area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area	Area 2Calculate Spreadsheets Use ready-made activities Sheep Shapes (lower KS2) and Area (Upper KS2).	https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources
•	of irregular shapes. Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]. Solve problems involving converting between units of time.	2Design and Make Create annotated cuboids using 2Design & Make with size information in the nets; children can calculate the volumes.	https://www.purplemash.com/#app/tools/2dam	https://www.purplemash.com/#app/lessonplans/info/2dam_guide
•	Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	Financial Capability activities Aimed at Y1-6 a collection of a variety of activities	https://www.purplemash.com/ #tab/pm- home/topics/financial educatio n	https://www.purplemash.com/#app/pup/Financialcapability lessonideas
		Time Ready-made activities in https://www.purplemash.com/#tab/pm-	Time Conversions	https://www.purplemash.com/#app/pup/maths_activities_Y3_time_conversions





home/maths/measures/time_topic	12 Hour and 24 Hour	https://www.purplemash.com/site#a
	Conversions	pp/pup/maths comptime L5
	Timetables	https://www.purplemash.com/site#app/
		pup/maths compare12 L5





Geometry – properties of a shape				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
Pupils should be taught to: Identify 3-D shapes, including cubes and other cuboids, from 2-D	Use of Mathematics printable resources	2D and 3D shapes	https://www.purplemash.com/#tab/teac hers/printable resources/printable reso urces mathematics/printable resources maths shape	
representations. • Know angles are measured	Ready-made activities at https://www.purplemash.com/#tab/	Angles	https://www.purplemash.com/#app/pup/maths_activities_Y5_shape_angles	
in degrees: estimate and compare acute, obtuse and	pm- home/maths/patterns and shapes/	3D Shapes	https://www.purplemash.com/#app/pup/maths activities Y5 shape 3d	
reflex angles. • Draw given angles, and	maths shape properties	Estimate angles	https://www.purplemash.com/app/pup/maths_activities_Y5_shape_estimate_an_gles_	
measure them in degrees (°). • Identify:		Types of angles	https://www.purplemash.com/app/pup/maths_activities_Y5_shape_estimate_angles_2	
 Angles at a point and one whole turn (total 360°) Angles at a point on a straight line and ½ a turn (total 180°). Other multiples of 90°. 	Logo Explore angles using the Logo turtle.	https://www.purplemash.com/#ap p/tools/2logo	https://www.purplemash.com/site#app/guides/2Logo Guide	
 Use the properties of rectangles to deduce related facts and find missing lengths and angles. 				
 Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. 				





Geometry – position and direction					
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources		
Pupils should be taught to: Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	Logo Use Logo to draw a simple shape. Using the Pen Up and Pen Down translate the shape (10,2)	https://www.purplemash.com/ #app/tools/2logo	https://www.purplemash.com/site#a pp/guides/2Logo Guide		



Statistics				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
 Pupils should be taught to: Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in tables, including timetables. 	2Calculate Spreadsheets Includes premade lesson plans and videos to develop number problemsolving skills. Create your own activities including scaled bar charts and tables. Relevant 2Calculate Lessons: Intermediate Points (Upper KS2)	https://www.purplemash.com/#app/tools/2Calculate The proposition of t	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources	
	Ready-made activities in https://www.purplemash.com/#tab/pm-	Timetables	https://www.purplemash.com/site#app/pup/maths_compare12_L5	
	home/maths/measures/maths_measures all	Interpreting Timetables	https://www.purplemash.com/site#app/pup/maths interprettable L6	
	2Investigate Create databases and watch the computer move the data cards around the screen to perform meaningful searches and sorts; Perform advanced and / or searches; Make reports on the database; Update data / pictures across a network instantly	https://www.purplemash.com/s ite#app/tools/2inv	https://www.purplemash.com/site#tab/teachers/guides and resources/2inv resources urses Use the ready-made databases and accompanying worksheets to practice problem solving using data.	





Number – number and place value				
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources	
Statement				
 Pupils should be taught to: Read, write, order and compare numbers up to 10 000 000 and determine the 	Use of Mathematics printable resources	Number lines, 100 squares, number cards, place value	https://www.purplemash.com/#tab/teachers/ printable resources/printable resources mat hematics/printable resources maths_templat es	
value of each digit.Round any whole number to a required degree of accuracy.		Place Value Place Value. Th, H, T, O Place Value. M, Th, H, T, O	https://www.purplemash.com/#tab/teach ers/printable resources/printable resourc es mathematics/printable resources mat hs templates	
 Use negative numbers in context, and calculate 	Ready-made activities in https://www.purplemash.co	Numbers to 10,000,000	https://www.purplemash.com/#app/pup/mat hs activities Y6 large numbers	
intervals across zero.Solve number and practical	m/#tab/pm- home/maths/numbers/num	Rounding	https://www.purplemash.com/#app/pup/mat hs activities Y6 rounding	
problems that involve all of the above.	bers place value Also look at previous years resources in this area for	Rounding spreadsheet	https://www.purplemash.com/#app/pup/2cal c_rounding	
	revision of topics	Number Lines – Placing Numbers	https://www.purplemash.com/site#app/pup/ maths_usingnumberlines_L6	
		Negative Number Lines	https://www.purplemash.com/site#app/pup/ maths_inveverydaysituations2_L6	
		Negative Numbers	https://www.purplemash.com/site#app/pup/ maths_inveverydaysituations4_L6	
		Positive & Negative Integers	https://www.purplemash.com/site#app/pup/ maths_inveverydaysituations3_L6	
		Negative/Positive	https://www.purplemash.com/site#app/pup/maths_inveverydaysituations1_L6	
		Problem Solving (+ - X ÷)	https://www.purplemash.com/site#app/pup/	





		maths applyingarangeofstrategies L6
	Find the missing number (+ - X ÷)	https://www.purplemash.com/site#app/pup/
		maths applyingarangestrats1 L6
	Problems Involving Decimals	https://www.purplemash.com/site#app/pup/
	_	maths exploring L6
	Journey Distances Decimals	https://www.purplemash.com/site#app/pup/
	•	maths exploring1 L6
	Number Pattern Rules	https://www.purplemash.com/site#app/pup/
		maths generalisation1 L6
	Number Patterns	https://www.purplemash.com/site#app/pup/
		maths generalisation2 L6
	2Calculate Place Value	Thousands, Hundreds, Tens and Ones
	Spreadsheets.	https://www.purplemash.com/#app/pup/2cal
	Help children recognise the place value	c place value ThHTU
	of each digit. Use as a whiteboard	
	resource or for individuals to challenge	
	and test themselves.	
Game Sequence Snake:	https://www.purplemash.com/#ap	Use 2DIY Game Sequence Snake to make a
Eat the numbered balls to	p/games/seqsnake	game suited to your pupils.
complete the sequence.	a a b ? ? ? ? ? ?	https://www.purplemash.com/site#app/tools
Three levels of challenge	→ • • • • • • • • • • • • • • • • • • •	/2diy/Snake
that increases the	a a	Watch the help video in the app for a quick
complexity of the numbers	19	overview of how to do this.
used and the speed. – use	26 10	
challenge C.	https://www.margaranda.ac.edu.	https://www.gorgalegogal
2Race	https://www.purplemash.com/#ta	https://www.purplemash.com/#tab/pm-
Set up multiplayer games.	b/pm-home/games/2race_all	home/games/2race_all
Choose your track type and	[20000#e	
question types; pre-set	V	
choices include:		
One less/more than	*	
• Odd/eve		
 Comparison 		
 Number bond 		
 Addition 		
• Subtraction		





 Multiplication 	
 Division 	
 Times tables 	





Number – addition, subtraction, multiplication and division					
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources		
Statement					
 Pupils should be taught to: Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Divide numbers up to 4 digits by a two-digit whole number using the formal 	Use of Mathematics printable resources	Number lines and 100 squares	https://www.purplemash.com/#tab/teachers/printable resources/printable resources mat hematics/printable resources maths templat es		
written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. • Divide numbers up to 4		Place Value Prime, Square and Cubed numbers 123 123 123 156 789	https://www.purplemash.com/#tab/teachers/printable_resources/printable_resources_mat hematics/printable_resources maths templat_es https://www.purplemash.com/#tab/teach_ers/printable_resources/printable_resources_maths_template_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_maths_templates_printable_resources_printable_resources_maths_templates_printable_resources_printab		
digits by a two-digit number using the formal written method of short division where appropriate,	Ready-made activities in https://www.purplemash.com/#tab/pm-home/maths/numbers/num	Templates - Prime Numbers Square Numbers Cube Numbers Roman Numerals Long Division Common Factors and Primes	aths templates https://www.purplemash.com/#app/pup/mat hs activities Y6 long division https://www.purplemash.com/#app/pup/mat hs activities Y6 factors		
interpreting remainders according to the context.Perform mental	bers place value Also look at previous years resources in this area for	Multiplication – 2 by 3 Digits Multiplication – multiple digits	https://www.purplemash.com/site#app/pup/maths_applyingarangestrats2_L6 https://www.purplemash.com/site#app/pup/		
calculations, including with mixed operations and large numbers.	revision of topics	Missing Numbers (x)	maths applyingarangeofstrategies2 L6 https://www.purplemash.com/site#app/pup/ maths interpretingresults2 L6		





•	Identify common factors, common multiples and		Missing Numbers (x & ÷)	https://www.purplemash.com/site#app/pup/maths interpretingresults1 L6
•	prime numbers. Use their knowledge of the		Multiples of 10 (x & ÷)	https://www.purplemash.com/site#app/pup/maths_multidevdecimal1_L6
	order of operations to carry out calculations involving		Long Multiplication	https://www.purplemash.com/#app/pup/mat hs activities Y6 long multiplication
	the four operations. Solve addition and		Multiplying Decimals	https://www.purplemash.com/#app/pup/mat hs activities Y6 multiply decimals
	subtraction multi-step problems in contexts,		Mental Calculations	https://www.purplemash.com/#app/pup/mat hs activities Y6 mental calculations
	deciding which operations and methods to use and why Mathematics – key stages 1 and 2 40 Statutory	Maths Quiz Generate your own maths quizzes. Test the children on +, - or X of varying	https://www.purplemash.com/#app/diyjs/2quiz	https://www.purplemash.com/#tab/teachers/guides_and_resources/2diy_2quiz_resources
	requirements.	complexity. Use for mental maths practice and testing.		
•	Solve problems involving addition, subtraction, multiplication and division. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	Table Toons The children develop their multiplication skills through song. The children create their own musical playlist using a range of different songs. Games consolidate these skills. Ranging from 2x to 12x 2Race Set up multiplayer games. Choose your track type and	https://www.purplemash.com/#ta b/pm-home/games/tabletoons OK Games https://www.purplemash.com/#ta b/pm-home/games/2race_all	Watch the help video from within Table Toons to find out how to make full use of this tool. https://www.purplemash.com/#app/games/ mg2/tabletoons https://www.purplemash.com/#tab/pm- home/games/2race_all
		question types; pre-set choices include: One less/more than Odd/eve Comparison Number bond Addition		





			100
 Subtract Multiple Division Times to 	ication 1		
clicking near the top of the total or the one it I number the Three leve	bble blower by ar a target bubble of the screen. If the bubble and nits are the target bubbles will fall. s of challenge		oles Challenge C.
calculator of target number on the SUN bonus poir	#app/games/full #app/games/ful		challenge that increases the the numbers used and the
<u> </u>	Random number https://www.pu		e random number tool to create he children to solve. Set these





2Calculate Spreadsheets	https://www.purplemash.com/#ap	https://www.purplemash.com/#tab/teachers/
Includes premade lesson	p/tools/2Calculate	<pre>guides and resources/2calculate resources</pre>
plans and videos to develop		
number problem-solving	Can be accessed by pupils from	
skills.	within 2Calculate tool.	
2Calculate Lessons:		
Number Stories		
Making Formulae		
Area		
A-Fish-Metic	https://www.purplemash.com/#ap	
Develop basic number	p/games/mg2/afishmetic	
skills with 4 levels of	Current: 2 Target: 5	
difficulty. Levels 1 and 2	3 + 2 = 5	
cover addition and	U	
subtraction, level 3		
· ·	**	
multiplication and level 4		
advanced multiplication.		
<u>Dividers</u>	https://www.purplemash.com/site	Use Challenge C. You can change the level
Divide the numbers before	#app/games/dividers	using the teachers tab at the top of the
they reach the calculator by	20 8 15 12	screen.
firing factors at them. Three	2 3	
levels of challenge that		
increases the complexity of		
the numbers used and the	i (O	
speed.		
Factoroids	Use Challenge C. You can change	http://www.purplemash.com/#games/factoro
Break down the factors into	the level using the teachers tab at	ids
equal parts. Three levels of	the top of the screen	
challenge that increases the	Score: 0 Level: 1	
complexity of the numbers		
used and the speed.	35.	
,	HALI	
	•	





Number – Fractions						
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources			
Statement						
 Pupils should be taught to: Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Compare and order fractions, including fractions > 1. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ½ × ½ = 1/8]. Divide proper fractions by whole numbers [for 	Fraction Wall Guide the falling fractions as they drop down from the top of the screen. Position the fractions so they contain a whole. Three levels of challenge that increases the complexity of the numbers used and the speed.	https://www.purplemash.com/ #app/games/fracwall	https://www.purplemash.com/#tab/teach ers/printable resources/printable resour ces mathematics/printable resources m aths fractions Use Challenge C. You can change the level using the teachers tab at the top of the screen.			
	Fractonio's Pizzeria Develop fraction skills with 3 levels of difficulty.	https://www.purplemash.com/ #app/games/mg2/pizza Level 2: Pizza Master	Level 1: Pizza Rookie asks the children to use simple fractions to create a pizza. Level 2: Pizza Master encourages the children to use mixed fractions and Level 3: Pizza King converts fractions into percentages.			
example, $\frac{1}{3} \div 2 = \frac{1}{6}$]. • Associate a fraction with	Ready-made activities in https://www.purplemash.co	Fraction and Decimal Pairs	https://www.purplemash.com/#app/pup/mat hs activities Y6 fractions and decimals			
division and calculate	m/#tab/pm- home/maths/numbers/num	Compare and Order fractions	https://www.purplemash.com/#app/pup/mat hs activities Y6 fractions order			
decimal fraction equivalents [for example,	ber fractions	Writing Fractions – LCM	https://www.purplemash.com/site#app/pup/ maths_composite_L6			
0.375] for a simple fraction [for example, $\frac{3}{8}$].		Prime Factorisation & HCF	https://www.purplemash.com/site#app/pup/ maths_composite2_L6			





•	Identify the value of each		Comparing Fractions	https://www.purplemash.com/site#app/pup/
	digit in numbers given to			maths_Comparefrac1_L6
	three decimal places and		Fractions, Decimals and	https://www.purplemash.com/site#app/pup/
	multiply and divide		Percentages	maths_ConnectFDP_L6
	numbers by 10, 100 and		Equivalent Fractions	https://www.purplemash.com/site#app/pup/
	1000 giving answers up to			maths_demoequivalence_L6
	three decimal places.		Fraction Calculations	https://www.purplemash.com/site#app/pup/
	· •			maths_recognising3rd_L6
•			Fraction Sentences	https://www.purplemash.com/site#app/pup/
	with up to two decimal			maths_addsubfractions1_L6
	places by whole numbers.		Related Denominators	https://www.purplemash.com/site#app/pup/
•	Obe Willeten antibion			maths_addsubfractions2_L6
	methods in cases where	2Calculate	https://www.purplemash.com/site	https://www.purplemash.com/site#tab/teach
	the answer has up to two	Explore formatting with	#app/tools/2Calculate	ers/guides_and_resources/2calculate_resourc
	decimal places.	numbers of decimal places;	0.00	<u>es</u>
•	Solve problems which	relate to rounding.	Format Cell:	
	require answers to be		0.00 £0.00 % 1/2	
	rounded to specified		Set decimal places ♥	
	degrees of accuracy.		2	
	Recall and use equivalences			
	between simple fractions,	2Calculate	https://www.purplemash.com/site	https://www.purplemash.com/site#tab/teach
	decimals and percentages,	Explore formatting as	#app/tools/2Calculate	ers/guides and resources/2calculate resourc
	including in different	fractions and percentages.	0.00	<u>es</u>
		Convert to decimals and		Fraction Decimal Malloy by 10 Multiply by 100 100
	contexts.	multiply by 10 or 100.	Format Cell:	$\frac{72}{14}$ $\frac{3}{4}$ \Leftrightarrow 0.75
			0.00 £0.00 % 1/2	$\begin{array}{c cccc} V_2 & V_2 & \Leftrightarrow & 0.75 \\ \hline V_4 & V_4 & \Leftrightarrow & 0.75 \\ \hline V_{10} & V_{20} & \Leftrightarrow & 0.75 \\ \hline V_{10} & V_{20} & \Leftrightarrow & 0.75 \\ \hline V_{10} & V_{20} & \Leftrightarrow & 0.75 \\ \hline V_{20} & &$
			Set decimal places ♥	3 ₁₀
			2	3⁄4
			$\frac{2}{5}$ + $\frac{4}{5}$ = 1 $\frac{1}{5}$	0.01 ½00
			** ** ** ** ** ** ** *** *** *** *** *	1.05 1 ½0
			$\frac{1}{4}$ x $\frac{4}{5}$ = $3\frac{1}{5}$	$\frac{1}{1/2}$ + $\frac{7}{10}$ = $\frac{1}{1}$
			9 x ½ =?	
			× /9 = F	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09
				$\frac{1}{100}$ $\frac{1}{100}$ $\frac{3}{100}$ $\frac{1}{125}$ $\frac{1}{120}$ $\frac{3}{120}$ $\frac{7}{100}$ $\frac{3}{25}$ $\frac{9}{100}$





	1	÷	100	=	0.01	=	1%	=	1/100
	20	÷	100	=	0.2	=	20%	=	1/5
	50	÷	100	=	0.5	=	50%	=	1/2
	75	÷	100	=	0.75	=	75%	=	3/4
	36	÷	100	=	0.36	=	36%	=	9/25





Ratio a	Ratio and proportion						
National	Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources			
Statemer	nt						
 Solve the requantivalues using in and di Solve the capercer of means 15% or 	problems involving lative sizes of two ities where missing scan be found by integer multiplication ivision facts. problems involving alculation of intages [for example, asures, and such as of 360] and the use of	Conversions 2Calculate Spreadsheets Create a conversion tool; see Upper KS2 Lesson – Miles to Kilometers. Use Converting Money lesson – find missing values using conversion rates. Use 25% off lesson to practice calculating percentages of amounts. Financial Capability activities Aimed at Y1-6 a collection of a variety of activities	https://www.purplemash.com/#app/tools/2Calculate https://www.purplemash.com/#tab/pm-	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources https://www.purplemash.com/#app/ pup/Financialcapability_lessonideas			
compaSolve similar	ntages for arison. problems involving r shapes where the factor is known or can and.	variety of delivities	home/topics/financial education				
Solve unequer groupi	problems involving ual sharing and ing using knowledge ctions and multiples.	Logo Write instructions of developing complexity to control the on screen turtle using simple logo commands. Ask the children to draw regular shapes and then to draw new shapes with a given scale factor	https://www.purplemash.com/ #app/tools/2logo	https://www.purplemash.com/site#a pp/guides/2Logo Guide			



Algebra						
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources			
 Pupils should be taught to: Use simple formulae. Generate and describe linear number sequences. Express missing number problems algebraically. 	Use of Mathematics printable resources	Special Numbers – explore patterns 1 2 3	https://www.purplemash.com/#tab/t eachers/printable resources/printabl e resources mathematics/printable resources maths templates			
 Find pairs of numbers that satisfy an equation with two unknowns. 	2Calculate Spreadsheets Use spreadsheet lessons that include formulae. Such as Making Formulae	https://www.purplemash.com/#ap p/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources			
 Enumerate possibilities of combinations of two variables. 	2Calculate Spreadsheets Use formulae in spreadsheets to create and explore number sequences. Build complexity onto Lower KS2 lesson Sequences.	https://www.purplemash.com/#ap p/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources			
	2Quiz Create quizzes for number sequences. Question formats; sequencing, multiple choice, text, labelling and cloze could be used for this.	https://www.purplemash.com/#ap p/diyjs/2quiz	https://www.purplemash.com/#tab/t eachers/guides and resources/2diy 2quiz resources			



Measurement					
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources		
Statement					
 Pupils should be taught to: Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three 	Use of Mathematics printable resources Conversions 2Calculate Spreadsheets	Properties of triangles https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/t eachers/printable resources/printable e resources mathematics/printable resources maths shape https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r		
decimal places where appropriate. • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time	Create a conversion tool; see Upper KS2 Lesson – Miles to Kilometres. Apply this to other units as well. Upper KS2 lesson – Making Formulae Upper KS2 lesson – Converting		<u>esources</u>		
from a smaller unit of	Money				
measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.	Area and Perimeter 2Calculate Spreadsheets Build upon Lower KS2 Lesson – Sheep Shapes	https://www.purplemash.com/#ap p/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides_and_resources/2calculate_r esources		
 Convert between miles and kilometres. Recognise that shapes with 	Ready-made activities in https://www.purplemash.com/#tab/pm-	Perimeter	https://www.purplemash.com/#app/pup/maths activities Y5 measures perimeter		
the same areas can have	home/maths/measures/maths_measures_all	Area	https://www.purplemash.com/#app/pup/maths activities Y5 measures area		
different perimeters and vice versa.		Convert units of measure	https://www.purplemash.com/#app/pup/maths activities Y4 measures convert		
 Recognise when it is possible to use formulae 		Convert measures to solve problems	https://www.purplemash.com/app/pup/maths_activities_Y6_measures_convert		
for area and volume of shapes.		Convert units (m and mm)	https://www.purplemash.com/app/pup/maths_activities_Y6_measures_convert_units		





Calculate the area of parallelograms and triangles.		Matching volume and capcity	https://www.purplemash.com/site#app/pup/maths_connectvolume2_L6
Calculate, estimate and compare volume of cubes		Volume and Capacity	https://www.purplemash.com/site#app/pup/maths_connectvolume1_L6
and cuboids using standard units, including cubic		Prefixes in units of measurement	https://www.purplemash.com/site#app/pup/maths_prefixmeasure_L6
centimetres (cm ³) and cubic metres (m ³), and extending to other units [for example, mm ³ and km ³].	2Design and Make Create annotated cuboids using 2Design & Make with size information in the nets; children can calculate the volumes.	https://www.purplemash.com/ #app/tools/2dam	https://www.purplemash.com/#app/lessonplans/info/2dam_guide





Geometry – properties of a shape					
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources		
Statement					
 Pupils should be taught to: Draw 2-D shapes using given dimensions and angles. Recognise, describe and build simple 3-D shapes, including making nets. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Recognise angles where 	Use of Mathematics printable resources Logo Explore angles using the Logo turtle.	2D and 3D shapes https://www.purplemash.com/#app/tools/2logo	https://www.purplemash.com/#tab/teac hers/printable resources/printable reso urces mathematics/printable resources maths shape https://www.purplemash.com/site#app/ guides/2Logo Guide		
	2Design and Make Create, edit and make 3D shapes from nets.	https://www.purplemash.com/ #app/tools/2dam	https://www.purplemash.com/#app/lessonplans/info/2dam_guide		
they meet at a point, are on a straight line, or are vertically opposite, and	Ready-made activities at https://www.purplemash.com/#tab/pm-	Angles 3D Shapes	https://www.purplemash.com/#app/pup/maths_activities_Y5_shape_angles https://www.purplemash.com/#app/pup		
find missing angles.	home/maths/patterns and shapes/ maths_shape_properties		/maths activities Y5 shape 3d		
		Unknown angles in triangles	https://www.purplemash.com/app/pup/ maths activities Y6 shape angles unkn own		





shape problems	https://www.purplemash.com/app/pup/maths activities Y6 shape problems
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Geometry – position and direction					
National Curriculum	Purple Mash Resource	Direct link to resource	Link to Planning and Resources		
Statement					
 Pupils should be taught to: Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. 	Use of Mathematics printable resources	Coordinates	https://www.purplemash.com/#tab/teac hers/printable resources/printable reso urces mathematics/printable resources maths shape		
	Logo Use Logo to draw a simple shape. Using the Pen Up and Pen Down translate the shape (10,2)	https://www.purplemash.com/ #app/tools/2logo	https://www.purplemash.com/site#a pp/guides/2Logo Guide		
	2Go Create a resource on 2Go and print it off. Ask the children to answer questions relating to the resource. E.g. use a map of Europe and ask the children where they would land if they travelled (3,4) from Madrid	The state of the s	https://www.purplemash.com/#app/tools/2go		





Statistics					
National Curriculum Statement	Purple Mash Resource	Direct link to resource	Link to Planning and Resources		
 Pupils should be taught to: Interpret and construct pie charts and line graphs and use these to solve problems. Calculate and interpret the mean as an average. 	2Calculate Spreadsheets Includes premade lesson plans and videos to develop number problemsolving skills. Create your own activities including scaled bar charts and tables. Relevant 2Calculate Lessons: Intermediate Points (Upper KS2) Mean Class sizes	https://www.purplemash.com/#app/tools/2Calculate	https://www.purplemash.com/#tab/teac hers/guides and resources/2calculate r esources		
		Can be accessed by pupils from within 2Calculate tool.			



