

Year 6 Maths Attainment and Progress Grid:

Content domain	Autumn	Assessment task	Spring	Assessment task	Summer
Number & Place Value	Read, write, order and determine	EXS:		EXS:	
	the value of every digit in numbers	• M9/1			
	up to 1 million.	•			
	Identify the location of a whole	• M10/1			
	number up to 1 million on a number	• M10/2			
	line.	• M11/1			
	Compare and order any whole number up to 1 million				-
	 Round any whole number to any 	• GD9/1		GD3.	
	degree of accuracy.	•			
	Count up and down negative	• GD10/1			
	numbers, compare numbers that are	• GD10/2			
	positive and negative and calculate	• GD11/1			
	intervals across zero.				
Addition & Subtraction	Solve addition and subtraction	EXS:		EXS:	
	multi-step problems using column	 IVI13/1 IVI13/1 			
		GDS:	-	GDS:	-
		• M13/1			
		• M14/1,2			
Multiplication and	• Multiply a 4 digit number by a 2	EXS:	Multiply and divide any whole or	EXS:	
Division	digit number using column long	•	decimal number by 10, 100 or 1000.	1) M17/1	
	multiplication.	•			
	Divide numbers up to 4 digits by 2 digits using formal written methods	•			
	of division.	•			
	• Interpret remainders either as whole	• M13/3,			
	numbers, fractions, decimals or	16/2			
	rounding the whole number.	•			
	Identify and explain what a common	• M15/1,			
	numbers are	16/1			-
	Identify what square and cubed	•		- CUD.	
	numbers are as well as find what a	•			
	number squared is.	•			
	• Use their knowledge of the order of	•			
	operations to carry out calculations	•			
	including brackets and indices.	• MGD13/3,			
		16/2			
		•			





Assessment task
EXS:
GDS:
EXS:
GDS:
EXS:
GDS:



		1		
	 Perform mental calculations and 	 MGD,15/1, 		
	select the most effective method to	17/1		
	find an answer.			
	• Use facts they already know in order			
	to answer questions and support			
	mental calculations.			
Fractions	• Simplify fractions into their simplest	EXS:	• Find the equivalent decimal. fraction	EXS:
	form or to an equivalent.	•	and percentage understanding the	• M21/3
	 Compare and order fractions and 	• M18/1.2	value of each digit of a decimal	•
	mixed numbers.	• M20/1	number.	•
	Order fractions and mixed numbers	• M21/2	• Compare and order decimals,	•
	on a number line.	• M 21/2	percentages and decimals.	•
	Add fractions/ mixed numbers with	•	• Multiply decimals with up to 2	• M24/1 -
	differing denominators that go over	•	decimal places by a 1 digit number.	25/3
	the whole.	•	• Divide decimals by a single number	•
	• Subtract fractions/ mixed numbers	• M22/2	knowing which form the remainder	
	with differing denominators that go	• M21/2	should be in (decimal, fractions,	
	over the whole.		rounding or remainder).	
	• Multiply a fraction by a whole	GDS	• Find a percentage of an amount.	GDS ¹
	amount.	•	• Find a missing whole number when	• MGD21/3
	• Multiply a fraction by another	• MGD18/1.2	given a percentage of the whole.	•
	fraction.	• MGD20/1		
	• Divide a fraction by a whole number	• MGD20/1		
	• Solve worded problems that include	• MGD21/2		
	the 4 operations and fractions.	• 10021/2		
	Find fractions of amounts.	•		•
		•		
		•		
		• MGD22/2		
		• MGD21/2		
Algebra		EXS:	• Find a rule with 1 or 2 steps and	EXS:
			explain what the input and output	•
			WIII be.	• M14/3 -
			• Write expressions based on simple	2//2-
			rules and write expressions of	28/1
			missing number problems.	•
			Create formulae of snapes and common rules in order to find error	
		GD2:	or porimeters	טט:
			• Find pairs of numbers that will	•
			satisfy 2 unknowns	• IVI14/3 -
			Satisty 2 ulikilowiis.	27/2-
				28/1
				•
Magginger				• WI29/4
ivieasurement		EXS:	Use, read, write and convert	• Solve problems
			between standard units, converting	• IVI31/1 – digital cloaks ald
			measurements of length, mass,	55/1 – 52. missing duration
			unit of moscure to a larger unit and	Soive problems
			unit of measure to a larger unit, and	and calendars.





	EXS:
	GDS:
	EXS:
	GDS:
ns using analogue and along with finding ions. ns using timetables s.	EXS: • M30/1 – M31/1



		GDS:	 vice versa, using decimal notation to up to three decimal places. Understand which measure is appropriate to use for differing situations. Convert between miles and KM. Understand and conceptualise the basic units of imperial measure. 	• GDS: • MGD31/1 - 33/1 - 32. • •	
Geometry	 Plot and describe co-ordinates on a single quadrant and 4 quadrant grid. Find missing co-ordinates from the information given. Translate and reflect shapes across quadrants. 	EXS: • M35/3 • M36/3 GDS: • MGD35/3 • MGD36/3	 Find the area and perimeter of different shapes (quadrilaterals, parallelograms, triangles and compound shapes) by counting squares or using the lengths of edges. Solve problems using knowledge of shape, area and perimeter. Find the volume of different cuboids including finding the length of edges by dividing the whole volume. 	EXS: • • GDS:	 Measure and dincluding angle Compare and dishapes based dishapes, quadimediater and angle Recognise angle at a point, are dishapes angles Locate and name a circle and universative is double Recognise, designational dishapes, incompares and other cubor representation
Ratio and proportion		EXS: GDS:	 Use the ratio symbol to show unequal sharing as well as write objects I Child can find scale factors as well as draw shapes when given a scale factor. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. 	EXS: 1. 2. 3. M16/3 – 23/1 4. M25/2 GDS: 1. 2. 3. MGD16/3 – 23/1 4. MGD25/2	
Statistics		EXS:		EXS:	• Find the mean amounts.



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	GDS: MGD30/1 – MGD31/1
draw 2d shapes es using a protractor. classify geometric on their properties angles in any drilaterals, and ms. les where they meet on a straight line, or pposite, and find me different parts of derstand that the le the diameter. cribe and build simple cluding making nets. apes, including cubes pids, from 2-D	EXS: M35/2 M35/1 M36/3 GDS: MGD35/2 MGD35/1 MGD36/3
-	EXS:
	GDS:
as an average of	EXS: • M38/2 •

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GDS:	G	 Find a missing amount from the mean average. Interpret the information from chart and its links to percenta and fractions. Construct pie charts, line grap bar charts. Interpret the information of lingraphs.

An expected Year 6 mathematician can manipulate number and place value up to a million with ease understanding with clarity the value of each digit as well as decimal numbers and negative numbers including rounding, adding, subtracting, multiplying and dividing by multiples of 10, 100 and 1000. They are proficient and quick at using compact forms of the 4 operations including long division which requires speed of their times tables up to 12 but also related number facts. All these skills equate to a learner who is able to not only answer questions quickly or mentally but also select the best way to complete questions from a range of different strategies. The child's knowledge of number allows them to quickly build links with fractions, decimals and percentages and use 4 operations on these as well and find amounts of whole numbers. They are able to use jottings (especially bar models) to deconstruct worded problems about any topic area in maths and select the correct method in order to find the answer to any question. They are determined and resilient in the face of word problems and continue to work hard to resolve it independently by asking themselves questions (What do I know?/ What don't I know? What's the same?/ What's different) and visualising what is happening in the question.

A Year 6 mathematician at greater depth can bring separate concepts together and think logically about another area of learning. Identifying the differing topics that are contained within questions. When shown problems and models which are unfamiliar, they are able to construct in their mind links to separate parts of their learning in order to solve the question. They show all the drive and determination of an expected mathematician however, they are able to write and discuss in precise detail with correct vocabulary without prompting their thoughts and opinions about a problem. They are also able to make complex problems seem clear to their peers and discuss succinctly the steps to take to complete problems.

https://www.ncetm.org.uk/media/uitj1x5g/mastery_assessment_y6.pdf

The codes in the assessment tasks relate to the above document. Each code to the side of each area of study relates to an assessment task to be completed by the teacher to assess the proficiency of the class in different areas of maths. This could be done at the end of a lesson, as a small group as a test as a discussion: it's the teacher's choice. However, these should be completed at regular intervals as you teach different areas of the curriculum as they will help inform you of what your children need (support with certain areas) and these do not replace the reasoning and problem solving that should be present in every maths lesson. It also needs to be evidence in some way so that assessment can be moderated. Some statements do not have an activity number, this is due to it not being overtly shown in the booklet however all skills can be found in other tasks but may not be the main skill of the task.

The code is as below:

2M12/1 – The first number is the year group booklet the task is from. The letter is if it's mastery or mastery with greater depth column. The next number is the page and the final number is which activity it is on the page.

This one would be: year 2 booklet, Mastery column, page 12, 1st activity on the page.

6MGD19/4 – Year 6 booklet, Mastery with greater depth column, Page 19, 4th activity down.



