

Maths Assessment Criteria

(What is PPRS expected standard in each year group on av?)

Standard 2		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
		<b>Autumn</b>	Number: Place Value (within 10)				Number: Addition and Subtraction (within 10)				Geometry: Shape	Number: Place Value (within 20)	
<b>Spring</b>	Number: Addition and Subtraction (within 20)				Number: Place Value (within 50) (Multiples of 2, 5 and 10 included)			Measurement: Length and Height		Measurement: Weight and Volume		Consolidation	
<b>Summer</b>	Number: Multiplication and Division (Reinforce multiples of 2, 5 and 10 to be included)			Number: Fractions		Geometry: Position and Direction	Number: Place Value (within 100)		Measurement: Money	Measurement: Time		Consolidation	
<p>Secure at standard 1</p> <p>Can count numbers to 100</p> <p>Can identify one more or less than a given number</p> <p>Uses the language equal to, more than, less than</p> <p>Read and write numbers to 20 in numerals</p> <p>Can count in 2s, 5s, 10s</p> <p>Can use and read mathematical symbols: + - =</p> <p>Knows number bonds to 10</p> <p>Knows number bonds to 20</p> <p>Can add and subtract single and 2-digit numbers up to 20 (using partitioning into 10s and 1s)</p> <p>Uses objects to solve multiplication and division one step problems</p> <p>Can use <math>\frac{1}{2}</math> and <math>\frac{1}{4}</math> within a practical situation</p>													
Standard 3		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
		<b>Autumn</b>	Number: Place Value			Number: Addition and Subtraction				Measurement: Money	Number: Multiplication and Division		
<b>Spring</b>	Number: Multiplication and Division		Statistics		Geometry: Properties of Shape			Number: Fractions			Measurement: Length and Height	Consolidation	
<b>Summer</b>	Geometry: Position and Direction			Problem solving and efficient methods		Measurement: Time		Measurement: Mass, Capacity and Temperature			Investigations		
<p>Knows the place value of each digit in a 2-digit number (tens, units)</p> <p>Reads and writes numerals to 100</p> <p>Recalls and uses addition and subtraction facts to 20</p>													

Uses number line and practical apparatus to solve problems using single and 2-digit numbers  
 Knows that addition can be completed in any order but subtraction cannot  
 Recalls and uses multiplication and division facts for 2, 5, 10  
 Recognises odd and even numbers  
 Solves multiplication and division problems using objects, arrays, repeated addition  
 Writes simple fractions (eg  $\frac{1}{2}$  og  $6=3$ ) and recognises equivalence of  $\frac{2}{4}$  and  $\frac{1}{2}$

Standard 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction				Number: Multiplication and Division			Consolidation	
Spring	Number: Multiplication and Division			Measurement: Money	Statistics		Measurement: Length and Perimeter			Number: Fractions	Consolidation	
Summer	Number: Fractions			Measurement: Time			Geometry: Properties of Shape	Measurement: Mass and Capacity			Consolidation	

Can find 10 or 100 more or less than a given number  
 Recognises the place value of each digit in a 3-digit number  
 Can compare and order numbers to 1000  
 Can read and write numbers up to 1000 in numerals  
 Can add and subtract numbers mentally, including 3-digit numbers  
 Can add and subtract numbers with up to 3-digits, using formal written methods  
 Can estimate the answer to a calculation and uses inverse operations to check answers  
 Can recall and use multiplication and division facts for 3, 4, 8 times tables  
 Can solve problems, including missing number problems, involving multiplication and division  
 Can recognise and use fractions as numbers

## Standard 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value				Number: Addition and Subtraction			Measurement: Length and Perimeter	Number: Multiplication and Division			Consolidation
Spring	Number: Multiplication and Division		Measurement: Area	Number: Fractions				Number: Decimals			Consolidation	
Summer	Number: Decimals	Measurement: Money		Measurement: Time	Statistics		Geometry: Properties of Shape		Geometry: Position and Direction	Consolidation		

- Can count in multiples of 6, 7, 9, 25 and 1000
- Can find 1000 more or less than a given number
- Can count backwards through zero to include negative numbers
- Recognises the place value of each digit in a 4-digit number
- Can round any number to the nearest 10, 100, 1000
- Can solve number and practical problems with increasingly large positive numbers
- Can add and subtract numbers with up to 4 digits using formal written methods
- Can estimate and use inverse operations to check answers to a calculation
- Can solve addition and subtraction 2-step problems in contexts, deciding which operations and methods to use and why
- Can recall multiplication and division facts for tables up to 12X12
- Can use place value and known and derived facts to multiply and divide mentally
- Can multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout
- Can recognise and show, using diagrams, families of common equivalent fractions
- Can add and subtract fractions with the same denominator
- Can recognise decimal equivalents to quarter, half and thirds
- Can find the effect of dividing a 1 or 2-digit number by 10 and 100
- Can round decimals with one decimal place to the nearest whole number

Standard 6?

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction		Statistics		Number: Multiplication and Division		Measurement: Perimeter and Area		Consolidation
Spring	Number: Multiplication and Division			Number: Fractions						Number: Decimals and Percentages		Consolidation
Summer	Number: Decimals				Geometry: Properties of Shape		Geometry: Position and Direction	Measurement: Converting Units		Measurement: Volume	Consolidation	

Can read, write and order and compare numbers to at least 1000 000 and determine the value of each digit

Can interpret negative numbers in context

Can round any number up to the nearest 1000 000 to the nearest 10, 100, 1000, 10 000, 100 000

Can add and subtract whole numbers with more than 4 digits, including formal written methods

Can add and subtract numbers mentally with increasingly large numbers

Can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Can identify multiples and factors, including finding all factor pairs of a number and common factors of 2 numbers

Know and use the vocabulary of prime numbers, prime factors and composite numbers

Can establish whether a number up to 100 is prime and recall prime numbers up to 19

Can multiply and divide numbers mentally drawing upon known facts

Can divide numbers up to 4 digits by a 1-digit number using the formal written method of short division

Can recognise and use square numbers and cube numbers, including their notation

Can solve problems involving addition, subtraction, multiplication and division and a combination of these

Can compare and order fractions whose denominators are all multiples of the same number

Identify, name and write equivalent fractions of a given fraction

Can read and write decimal numbers as fractions

Round decimals with 2 decimal places to the nearest number

Recognise % symbol and understand what it represents

Write percentages as a fraction

Standard 7?

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value		Number: Addition, Subtraction, Multiplication and Division				Number: Fractions				Geometry: Position and Direction	Consolidation
Spring	Number: Decimals	Number: Percentages	Number: Algebra		Measurement: Converting Units	Measurement: Perimeter, Area and Volume		Number: Ratio		Consolidation		
Summer	Geometry: Properties of Shape	Problem Solving			Statistics		Investigations				Consolidation	

- Round any whole number to a required degree of accuracy
- Use negative numbers in context and calculate intervals across zero
- Solve number and practical problems using the above
- Multiply multi-digit numbers up to 4 digits by a 2-digit whole number using formal method of long multiplication
- Divide numbers up to 4-digits by a 2-digit whole number using formal method of long division
- Perform mental calculations including using mixed operations and large numbers
- Identify common factors, common multiples and prime numbers
- Solve multi-step addition, subtraction, multiplication and division problems
- Compare and order fractions
- Add and subtract fractions with different denominators and mixed numbers, using concept of equivalent fractions
- Multiply simple pairs of proper fractions, writing answer in the simplest form
- Divide proper fractions by whole numbers
- Multiply 1-digit numbers with up to 2 decimal places by whole numbers
- Solve problems which require answers to be rounded to specific degrees of accuracy
- Recall and use equivalences between simple fractions, decimals and percentages
- Use simple formulae
- Can express missing number problems algebraically
- Find pairs of numbers that satisfy an equation with 2 unknowns

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**Entry Level 1:**

Representing – selecting the mathematics and information to model a situation:

- understand simple mathematical information in familiar contexts and situations

Analysing – processing and using mathematics:

- use mathematics to obtain answers to simple given practical problems that are clear and routine
- generate results that make sense for a specified task

Interpreting – interpreting and communicating the results of the analysis:

- provide solutions to simple given practical problems in familiar contexts and situations

Coverage and range:

- understand and use numbers with one significant figure in practical contexts describe the properties of size and measure, including length, width, height and weight, and make simple comparisons
- describe position • recognise and select coins and notes
- recognise and name common 2-D and 3-D shapes
- sort and classify objects practically using a single criterion

Assessment	Internally assessed
Tasks	Controlled assessment task
Assessment duration	1 hour
Marks	16 marks in total
Additional information	Calculators are allowed Opportunities to assess using tutor mediation and real life objects Opportunities to contextualise assessment according to learner interests

**Entry Level 2:**

Representing – selecting the mathematics and information to model a situation:

- understand simple practical problems in familiar contexts and situations
- select basic mathematics to obtain answers



Analysing – processing and using mathematics:

- use basic mathematics to obtain answers to simple given practical problems that are clear and routine
- generate results to a given level of accuracy
- use given checking procedures

Interpreting – interpreting and communicating the results of the analysis:

- describe solutions to simple given practical problems in familiar contexts and situations

Coverage and range:

- understand and use whole numbers with up to two significant figures
- understand and use addition/subtraction in practical situations
- use doubling and halving in practical situations
- recognise and use familiar measures, including time and money
- recognise sequences of numbers, including odd and even numbers
- use simple scales and measure to the nearest labelled division
- know properties of simple 2-D and 3-D shapes
- extract information from simple lists

Assessment	Internally assessed
Tasks	Controlled assessment task
Assessment duration	1 hour
Marks	18 marks in total
Additional information	Calculators are allowed Opportunities to assess using tutor mediation and real life objects Opportunities to contextualise assessment according to learner interests

**Entry Level 3:**

Representing – selecting the mathematics and information to model a situation:

- understand practical problems in familiar contexts and situations
- begin to develop own strategies for solving simple problems
- select mathematics to obtain answers to simple given practical problems that are clear and routine

Analysing – processing and using mathematics:

- apply mathematics to obtain answers to simple given practical problems that are clear and routine
- use simple checking procedures

Interpreting – interpreting and communicating the results of the analysis:

- interpret and communicate solutions to practical problems in familiar contexts and situations

Coverage and range:

- add and subtract using three-digit numbers
- solve practical problems involving multiplication and division by 2, 3, 4, 5 and 10 round to the nearest 10 or 100
- understand and use simple fractions
- understand, estimate, measure and compare length, capacity, weight and temperature
- understand decimals to two decimal places in practical contexts
- recognise and describe number patterns
- complete simple calculations involving money and measures
- recognise and name simple 2-D and 3-D shapes and their properties
- use metric units in everyday situations
- extract, use and compare information from lists, tables, simple charts and simple graphs

Assessment	Internally assessed
Tasks	Controlled assessment task
Assessment duration	1 hour
Marks	20 marks in total
Additional information	Calculators are allowed Opportunities to assess using tutor mediation and real life objects Opportunities to contextualise assessment according to learner interests

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**Functional Skills Level 1:**

Representing – selecting the mathematics and information to model a situation:

- understand practical problems in familiar and unfamiliar contexts and situations, some of which are non-routine
- identify and obtain necessary information to tackle the problem



- select mathematics in an organised way to find solutions

Analysing – processing and using mathematics:

- apply mathematics in an organised way to find solutions to straightforward practical problems for different purposes
- use appropriate checking procedures at each stage

Interpreting – interpreting and communicating the results of the analysis

- interpret and communicate solutions to practical problems, drawing simple conclusions and giving explanations.

Coverage and range:

- understand and use whole numbers and understand negative numbers in practical contexts
- add, subtract, multiply and divide whole numbers using a range of strategies understand and use equivalences between common fractions, decimals and percentages
- add and subtract decimals up to two decimal places solve simple problems involving ratio, where one number is a multiple of the other
- use simple formulae expressed in words for one- or two-step operations
- solve problems requiring calculation, with common measures, including money, time, length, weight, capacity and temperature convert units of measure in the same system
- work out areas and perimeters in practical situations
- construct geometric diagrams, models and shapes extract and interpret information from tables, diagrams, charts and graphs
- collect and record discrete data and organise and represent information in different ways find mean and range
- use data to assess the likelihood of an outcome.

Assessment	One external paper-based assessment
Tasks	Three sections in each assessment. Each section has a theme
Assessment duration	1 hour 30 minutes
Marks	16 marks per section 48 marks in total
Additional information	Calculators are allowed All coverage and range will be assessed over one year

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Representing – selecting the mathematics and information to model a situation :

- understand routine and non-routine problems in familiar and unfamiliar contexts and situations
- identify the situation or problems and identify the mathematical methods needed to solve them
- choose from a range of mathematics to find solutions

Analysing – processing and using mathematics:

- apply a range of mathematics to find solutions
- use appropriate checking procedures and evaluate their effectiveness at each stage

Interpreting – interpreting and communicating the results of the analysis:

- interpret and communicate solutions to multistage practical problems in familiar and unfamiliar contexts and situations
- draw conclusions and provide mathematical justifications.

Coverage and range:

- understand and use positive and negative numbers of any size in practical contexts
- carry out calculations with numbers of any size in practical contexts, to a given number of decimal places
- understand, use and calculate ratio and proportion, including problems involving scale
- understand and use equivalences between fractions, decimals and percentages understand and use simple formulae and equations involving one- or two-step operations
- recognise and use 2-D representations of 3-D objects find area, perimeter and volume of common shapes
- use, convert and calculate using metric and, where appropriate, imperial measures
- collect and represent discrete and continuous data, using information and communication technology (ICT) where appropriate
- use and interpret statistical measures, tables and diagrams, for discrete and continuous data, using information and communication technology (ICT) where appropriate
- use statistical methods to investigate situations use probability to assess the likelihood of an outcome.

Assessment	One external paper-based assessment
Tasks	Three sections in each assessment. Each section has a theme
Assessment duration	1 hour 30 minutes
Marks	16 marks per section 48 marks in total
Additional information	Calculators are allowed All coverage and range will be assessed over one year

### GCSE Maths Foundation/Higher:

Tier	Topic	Weighting
<b>Foundation</b>	Number	22-28%
	Algebra	17-23%
	Ratio, proportion and rates of change	22-28%
	Geometry and measures	12-18%
	Statistics and probability	12-18%
<b>Higher</b>	Number	12-18%
	Algebra	27-33%
	Ratio, proportion and rates of change	17-23%
	Geometry and measures	17-23%
	Statistics and probability	12-18%