

## Portswood Primary School - Year 5 Curriculum Map 2018 - 2019

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>English</b>	<p><b>Novel study – HOLES – Louis Sacher</b></p> <p>Instructional Texts – features, plan, write, edit instructions based on the book – how to dig a hole?</p> <p>Persuasive writing – Features, plan, write, edit a persuasive brochure for Camp Green Lake</p> <p>Persuasive letters – letter from Stanley to the judge. Letter writing to different audiences – letters to characters in Holes</p> <p>Features of a newspaper, write a newspaper based on events in Holes</p>	<p><b>History Focus – The Egyptians</b></p> <p><b>Range of fiction texts used to support writing</b></p> <p>Narrative poetry – The Listeners</p> <p>Performance poetry</p> <p>Narrative- adventure stories based on Howard Carter's discovery of Tutankhamun- plan, write, edit</p> <p>Information texts for the Egyptian museum</p>	<p><b>Geography focus - Italy</b></p> <p>Beowulf and Grendel and the Monster of the night.</p> <p>Features of a legend, explore characters, note taking, discussion</p> <p>Exploration of legends, story mapping, characterisation in a myth, heroes, setting</p> <p>Writing own legends – plan, write, edit</p> <p>Hercules</p>	<p><b>Geography focus - Italy</b></p> <p>Diary writing – Pompeii recount – plan, write, edit</p> <p>Pizza Persuasion – persuasive texts – plan, write and edit persuasive piece</p> <p>The Jabberwocky</p> <p>Reading, performing, learn by heart.</p> <p>Write own version of the Jabberwocky – plan, write, edit, publish, perform</p>	<p><b>History focus – The Mayans</b></p> <p>Narrative - suspense story. Alma – changing perspective.</p> <p>Non chronological reports – the Mayans</p>	<p><b>History focus – The Mayans</b></p> <p>Graphic novel – Smile. Understanding the features and re – writing novel into a narrative.</p> <p>Using a reading journal to record work from Smile. Writing a diary entry for a character.</p> <p>Group project about the Mayans</p>
<b>Reading Scheme</b>	Bug Club, Oxford Reading Tree (Biff and Chip and Project X), Rigby Star, Collins Big Cat.	Bug Club, Oxford Reading Tree (Biff and Chip and Project X), Rigby Star, Collins Big Cat.	Bug Club, Oxford Reading Tree (Biff and Chip and Project X), Rigby Star, Collins Big Cat.	Bug Club, Oxford Reading Tree (Biff and Chip and Project X), Rigby Star, Collins Big Cat.	Bug Club, Oxford Reading Tree (Biff and Chip and Project X), Rigby Star, Collins Big Cat.	Bug Club, Oxford Reading Tree (Biff and Chip and Project X), Rigby Star, Collins Big Cat.
<b>Maths</b>	<p><b>Number: Place Value</b></p> <p>Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</p> <p>-Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>-Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p>	<p><b>Measurement (Conversion)</b></p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>-Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <p>-Understand and use approximate equivalences between metric units and</p>	<p><b>Number- Multiplication and division - choose from these</b></p> <p><b>Could include</b></p> <p>-Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</p> <p>-Establish whether a number up to 100 is prime and recall numbers to 19</p> <p>-Identify multiples and factors and common factors of two numbers</p> <p>-Recognise and use square numbers and cube numbers,</p>	<p><b>Number- Percentages</b></p> <p>-Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</p> <p>-Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.</p>	<p><b>AFL driven – possible units include</b></p> <p>Number –Addition</p> <p>Number –Subtraction</p> <p>Number –Multiplication</p> <p>Number –Division</p> <p>Number -Fractions</p> <p>Number – decimals</p> <p>Measurement – Time</p> <p>Geometry – 2d and 3d shape</p> <p>Measurement - Area and Perimeter</p> <p>Number - Negative numbers</p>	<p><b>AFL driven – possible units include</b></p> <p>Arithmetic</p> <p>Statistics</p> <p>FDP</p> <p>Measurement - Area and Perimeter</p> <p>Geometry – 2d and 3d shape</p> <p>Statistics</p>

-Solve number problems and practical problems that involve all of the above.

**Number: Addition and Subtraction**

- Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- Add and subtract numbers mentally with increasingly large numbers
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

**Number: Multiplication and Division**

- Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- Multiply and divide numbers mentally drawing upon known facts
- Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
- Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
- Solve problems involving addition, subtraction, multiplication and division and a combination of these,

common imperial units such as inches, pounds and pints

**Number – Fractions and Decimals over two weeks.**

**Fractions**

- Recognize mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $>1$  as a mixed number - eg  $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$
- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

**Decimals**

**(Include 4 operations)**

- Read and write decimal numbers as fractions [for example,  $0.71 = 71/100$ ]
- Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- Round decimals with two decimal places to the nearest whole number and to one decimal place
- Read, write, order and compare numbers with up to three decimal places
- Solve problems involving number up to three decimal places

**Number: Percentages**

- Recognize the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
- Solve problems which require knowing percentage and decimal equivalents of  $1/2$ ,  $1/4$ ,  $1/5$ ,  $2/5$ ,  $4/5$  and those fractions with a

and the notation for squared (2) and cubed (3)

**Number – Multiplication and division**

**Must include**

- Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
- Multiply and divide numbers mentally drawing upon known facts
- Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

**Number- Fractions Use of AFL required depending on previous coverage.**

**Could include**

- Compare and order fractions whose denominators are all multiples of the same number
- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- Recognize mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $> 1$  as a mixed number [for example,  $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ ]
- Add and subtract fractions with the same denominator and denominators that are multiples of the same number

**Measure**

- Convert between different units of metric measure- kilometre and metre; centimetre and metre; centimetre and millimetre;
- Convert between different units of metric measure- gram and kilogram
- Convert between different units of metric measure- litre and millilitre
- Use all four operations to solve problems involving measure [length, mass, volume] using decimal notation, including scaling

**Number- Party Planning Unit**

*Plan a party for x children. Look at current supermarket offers, budgets, context, scaling*

- Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.
- Use all four operations to solve problems involving money using decimal notation, including scaling

**Statistics - This may take a week or you may need a little longer. Use week 5 to carry over**

- Solve comparison, sum and difference problems using information presented in a line graph
- Complete, read and interpret information in

including understanding the meaning of the equals sign

**Measurement: (time)**

-Read, write and convert time between analogue and digital 12- and 24-hour clocks

- Solve problems involving converting from:
- hours to minutes;
  - minutes to seconds;
  - years to months;
  - weeks to days.

**Measurement : Area and Perimeter**

-Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres  
-Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes

**Number: Fractions**

-Compare and order fractions whose denominators are all multiples of the same number  
-Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths  
-Add and subtract fractions with the same denominator and denominators that are multiples of the same number

denominator of a multiple of 10 or 25.

**Number: Addition and Subtraction**

-Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

**Number: Multiplication and Division**

-Know and use the vocabulary of prime numbers, prime factors and composite (non- prime) numbers  
-Establish whether a number up to 100 is prime and recall prime numbers up to 19  
-Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

**Geometry: Property of Shape**

-Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles  
-Draw given angles, and measure them in degrees (°)

- Identify –
- Angles at the point and one whole turn (total 360°)
- Angles at a point on a straight line and half a turn (180°)
- Other multiples of 90°

-Use the properties of rectangles to deduce related facts and find missing lengths

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

**Number- Decimals**

*Use of AFL required depending on previous coverage.*

**Could include**

-Read and write decimal numbers as fractions [for example, 0.71 = 10071]  
-Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents  
-Round decimals with two decimal places to the nearest whole number and to one decimal place  
-Read, write, order and compare numbers with up to three decimal places  
Solve problems involving number up to three decimal places

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*Use of AFL required depending on previous coverage.*

**Could include**

-Read and write decimal numbers as fractions [for example, 0.71 = 10071]  
-Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents  
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Solve problems involving number up to three decimal places

tables (*Use knowledge and understanding of FDP too.*)  
(Tables, line graphs, use Party Planning unit.)

**Number- Place Value- Negative Numbers – start half way through week 5**

-Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000  
-Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero  
Solve number problems and practical problems that involve negative numbers

		<p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>-Complete, read and interpret information in tables, including timetables.</li> <li>-Solve comparison, sum and difference problems using information presented in a line graph.</li> </ul>	<p><b>Geometry- Position and Direction</b></p> <p><b>Must include</b></p> <ul style="list-style-type: none"> <li>-Identify, describe and represent the position of a shape following a reflection, using the appropriate language, and know that the shape has not changed.</li> <li>-Identify, describe and represent the position of a shape following a translation, using the appropriate language, and know that the shape has not changed.</li> </ul> <p><b>Geometry- Shape</b></p> <p><b>Must include</b></p> <ul style="list-style-type: none"> <li>-Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li> </ul> <p>Also – use for any AFL needs</p>			
<b>Science</b>	Earth and Space Forces	Forces	Materials	Materials	Animals including humans	Living things – (Growing cuttings)
<b>Computing</b>	E safety Search engines	Digital Literacy Links to the past	Scratch	Spreadsheets	Scratch – recreate logo results	Spreadsheets
<b>History</b>	Egyptians	Egyptians			Mayan Civilization	Mayan Civilization
<b>Geography</b>			Contrasting European Locality Italy	Contrasting European Locality Italy		
<b>Art</b>	Painting Abstract Painting	Hieroglyph - printing	Drawing Architects	Drawing Architects	Sculpture – Mayan Mask	Sculpture – Mayan Mask
<b>DT</b>		Cam Toys		Pizza  ITALY		Land Yachts
<b>RE</b>	<b>Peace</b> Quran is revealed to Mohammed	<b>Prophecy</b> Christian beliefs about Jesus	<b>Prayer</b> Purpose of prayer	<b>Resurrection</b> The empty cross	<b>Water as a symbol</b> Islam Initiation	<b>Belonging:</b> Eucharist
<b>PSHE</b>	New Beginnings Rules	Rights and respect Discrimination	Being Healthy	Online wellbeing	Relationship Staying safe- drugs assertiveness	Transition Goal setting Managing feelings

<b>PE and Games</b>	Handball	Hockey	Rugby	Basketball	Cross Country	Rounders
	Gymnastics	Egyptian Dance	Haka Dance	Basketball Dance	Circuit Training	Orienteering
	Space Oddity	Tour through time	Vivaldi	Hip hop	Mayan music	Notation
<b>Music</b>						
<b>MFL French</b>	Healthy eating (food like/dislike, follow recipe)	I am the music man (musical instruments, expressing opinions)	The Planets (days of the week, sentence construction)	On the way to school (Numbers to 100, directions, simple time)	The return of spring (weather, seasons, roleplay)	Beach scene (French artists, describing a scene)