Hempstalls Primary School

Y1 Summer Term													
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Consolidation of Spring block 'Mass and Volume'	Multiplication and division			Fractions		Position and direction		Place value (within 100)		Money		Time		Consolidation

<table>
<tr><td>Place value (within 100)</td><td colspan="2">Times table/mental maths focus:</td></tr>
<tr><td rowspan="2">Pupils should be taught to:
• count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
• count, read and write numbers to 100 in numerals
• given a number, identify 1 more and 1 less
• identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least</td><td colspan="2">• Count in multiples of 2s, 5s and 10s (M&D step 1,2 and 3)
• One more/one less numbers under 50 (review of spring term)
• Number bonds to 10 and 20 review
• Doubling and halving</td></tr>
<tr><td colspan="2">Time
• Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later]
• Measure and begin to record time (hours, minutes, seconds)
• 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</td></tr>
<tr><td>Fractions</td><td>Measurement - Mass and volume</td><td>Multiplication and division</td></tr>
<tr><td>Pupils should be taught to:
• recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity
• recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity

Money
• Recognise and know the value of different denominations of coins and notes

Position and direction
• Describe position, direction and movement, including whole, half, quarter and three-quarter turns</td><td>Compare, describe and solve practical problems for:
• mass/weight [for example, heavy/light, heavier than, lighter than]
• capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]

Measure and begin to record the following:
• mass/weight
• capacity and volume

(The pairs of terms: mass and weight, volume and capacity, are used interchangeably at this stage.)</td><td>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

Step 1, 2 and 3 covered in mental maths</td></tr>
</table>

Hempstalls Primary School

Y2 Summer Term														
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Fractions			Time			Shape review		Statistics			Position and direction		Addition, subtraction, multiplication and division review	

Fractions	Times table/mental maths focus:	
• Recognise, find, name and write fractions 1/3 , 1/4 , 2/4 and 3/4 of a length, shape, set of objects or quantity – see calculation policy for steps • Write simple fractions, for example 1/2 of 6 = 3 and recognise the equivalence of 2/4 and ½ • Count in fractions up to 10 e.g. $1\frac{1}{2}$, 2 , $2\frac{1}{2}$, 3….	• Doubling and halving review • Adding three one digit numbers • Number bonds to 20	• 2, 5 and 10 times table • Derived calculations e.g. I know 3+7=10 so 30+70=100
	Time	
	• Compare and sequence intervals of time • Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times • Know the number of minutes in an hour and the number of hours in a day	

Position and direction	Addition, subtraction, multiplication and division (review from Autumn/Spring)	Shape (review from Autumn term)

• 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 anti-clockwise)
	• solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures
	• add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
	  ○ a two-digit number and 1s
	  ○ a two-digit number and 10s
	  ○ 2 two-digit numbers
	  ○ adding 3 one-digit numbers
	• recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems
	• solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
		• Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line
		• Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
		• Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
		• Compare and sort common 2-D and 3-D shapes and everyday objects
		
		Focus on review of language from previous coverage of block – **sides, vertices, edges, faces, symmetry, vertical line.**

Statistics		
• Interpret and construct simple pictograms, tally charts, block diagrams and tables • Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity • Ask-and-answer questions about totalling and comparing categorical data		

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Y3 Summer Term													
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Fractions		Money		Shape				Time			Statistics		Measurement review	

Fractions

- 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 non-unit fractions with small denominators – see Y2 calculation policy for steps
- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators - Spring review
- Recognise and show, using diagrams, equivalent fractions with small denominators – Spring review
- Add and subtract fractions with the same denominator within one whole [for example, + =]
- Compare and order unit fractions, and fractions with the same denominators – Spring review
- Solve problems that involve all of the above

Money

- Add and subtract amounts of money to give change, using both £ and p in practical contexts – recording of £ and p separately e.g. £2 and 15p

Times table/mental maths focus:

- Count up and down in tenths
- Review: 2s, 5s, 10s, 3s, 4s
- New: 8s
- Count in 50 and 100 from 0
- Addition and subtraction of multiples of 10 and 100
- Find 10 or 100 more or less than a given number
- Multiply and divide by 10

Time

- Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks – use of digital 12 hour clock
- Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year
- Compare durations of events [for example, to calculate the time taken by particular events or tasks]

Shape (review from Y2)

- Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line
- Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
- Recognise angles as a property of shape or a description of a turn
- Identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right angle – do not introduce obtuse and acute
- Identify horizontal and vertical lines and pairs of perpendicular and parallel lines

Statistics

- Interpret and present data using bar charts, pictograms and tables
- Solve one-step and two-step questions [for example 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables

Measurement review

- Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- Measure the perimeter of simple 2-D shapes

Focus on review of reading scales using practical approaches and concepts of mass/volume/capacity.

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Y4 Summer Term													
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Decimals			Money		Position and direction			Shape			Time		Statistics	Perimeter and area review

<table>
<tr><td>Time

• Convert between different units of measure [hour to minute]
• 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</td><td colspan="2">Times table/mental maths focus:
• Review: 6s, 7s, 11s
• New: 9s, 12s
• Counting in tenths and hundredths
• Counting in decimals
• Dividing by 10 and 100

Decimals
• Recognise and write decimal equivalents of any number of tenths or hundreds
• Recognise and write decimal equivalents to 1/4, 1/2 and 3/4
• Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
• Round decimals with 1 decimal place to the nearest whole number
• Compare numbers with the same number of decimal places up to 2 decimal places
• Practise counting using decimals both forwards and backwards
Consolidation of spring block as well as summer block.</td><td>Perimeter and area review from Autumn/Spring term
• Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
• Find the area of rectilinear shapes by counting squares</td></tr>
<tr><td>Money

• Solve simple measure and money problems involving fractions and decimals to 2 decimal places
• Estimate, compare and calculate different measures, including money in pounds and pence</td><td>Statistics
• interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
• solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

Position and direction
• 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</td><td>Shape (review from Y3)
• compare and classify geometric shapes, including quadrilaterals (rectangle, square, parallelogram, rhombus, trapezium, kite) and triangles (isosceles, equilateral, scalene and right angle), based on their properties and sizes
• identify acute and obtuse angles and compare and order angles up to 2 right angles by size
• identify lines of symmetry in 2-D shapes presented in different orientations
• complete a simple symmetric figure with respect to a specific line of symmetry
• Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</td></tr>
</table>

Hempstalls Primary School

Y5 Summer Term													
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Statistics		Shape			Position and direction			Converting units		Decimals			Volume	Negative numbers

<table>
<tr><td>Decimals</td><td colspan="2">Times table/mental maths focus:</td></tr>
<tr><td rowspan="2">• Read and write decimal numbers as fractions [for example, 0.71 =]
• Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
• Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
• Read, write, order and compare numbers with up to 3 decimal places
• Solve problems involving number up to 3 decimal places

Step 10 and 11 consolidated in mental maths/morning maths</td><td colspan="2">• Multiply and divide whole numbers and decimals by 10/100/1000
• Square and cube numbers
•</td></tr>
<tr><td>Volume

• Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]</td><td>Negative numbers

• Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0</td></tr>
<tr><td>Converting units</td><td>Statistics (Y4 time review before timetables)</td><td>Shape (review)</td></tr>
<tr><td>• Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]
• Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
• Solve problems involving converting between units of time
• Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling</td><td>• Solve comparison, sum and difference problems using information presented in a line graph
• Complete, read and interpret information in tables, including timetables

• 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

Position and direction

• 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</td><td>• Identify 3-D shapes, including cubes and other cuboids, from 2-D representations
• 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 a point and 1 whole turn (total 360°)
○ angles at a point on a straight line and half a turn (total 180°)
○ other multiples of 90°
○ 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

• compare and classify geometric shapes, including quadrilaterals (rectangle, square, parallelogram, rhombus, trapezium, kite) and triangles (isosceles, equilateral, scalene and right angle), based on their properties and sizes</td></tr>
</table>

Y6 Summer Term													
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Shape		Area, perimeter and volume		Converting units	SATs week	Statistics review		Addition, subtraction, multiplication and division review		FDP review		Measurement review		Consolidation
								Themed projects linked to fundraising for festival, show and trips.						

Shape	Times table/mental maths focus:
• 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 • 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 they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	• Multiply and divide by 10/100/1000 • Count forwards and backwards through zero including negative numbers • Square, cube and prime numbers • Mental calculations with all four operations Converting units • Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places • Convert between miles and kilometres
Statistics	Area, perimeter and volume (Y5 review)
• Interpret and construct pie charts and line graphs and use these to solve problems • Calculate and interpret the mean as an average Create graphs relating 2 variables Review knowledge of fractions and percentages linked to pie charts	• Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area and volume of shapes and calculate the area of parallelograms and triangles • Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3] • Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres • Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm^2) and square metres (m^2), and estimate the area of irregular shapes