

**Junior Department – Year 6 scheme of work**

**Maths**

**Key Stage 2 curriculum**

**Resources and planning from:**

**Level up maths: 3-5,4-6 and 5-7**

**Abacus maths scheme for Years 5, 6 and 7**

**Twinkl**

<i>Time-line</i>	<i>Subject topics</i>	<i>Resources / activities (including ICT)</i>	<i>Assessment &amp; skills (including ICT)</i>	<i>SEN / EHC / EAL / Gifted &amp; talented</i>
<b>Year 6, term 1:</b>				
Week 1, Autumn Term	Basic skills assessment Reasoning assessment	Ordering numbers up to 100,000 Addition and subtraction revision	Assess pupil's prior knowledge on each maths topic and begin in the relevant level for each individual pupil  ICT - My Maths activities to consolidate each topic	G and T - Extended tasks and reasoning exercises for each topic  SEN support - specific to individual pupils needs and based around their IEP's
Week 2	2d shapes - perimeter and area	Perimeter and areas of 2d shapes Names of 2d shapes and descriptions Mathematical vocabulary		As above
Week 3	Multiplication – short and long written methods Reasoning questions using multiplication Mental maths skills and times tables	To use standard written methods for multiplication To use the inverse operation when checking answers Problem solving using multiplication Times table bingo		As above
Week 4	Statistics and graph work Averages: mean, median and mode	To interpret and construct pie charts To draw line graphs involving two variables  To work out the mean, median, mode and range of a set of numbers.	ICT - graph work to be done on the computer	As above
Week 5	Fractions	Simplify fractions Order and compare fractions		As above

	Maths code breaker	Add and subtract using fractions including mixed numbers Bonfire night code breaker ( twinkl)		
Half term				
Week 6	Multiply and divide numbers by 10, 100, 1000.	Multiply and divide numbers by 10,100 AND 1000 Multiply decimals by whole numbers for question including money.		As above
Week 7	Position and direction	Using coordinate grids Angles	As above	As above
Week 8	Units of measurement  Maths puzzles	Convert between standard units of measurement Mental maths – BIDMAS order of operations Mystery of the place value shopping scam sham!	As above	As above
Week 9	Division Percentages	Written methods for short and long division Reasoning word problems using division Introduction to percentages		
Week 10	Algebra	Sequences, expressions and mappings Constructing expressions Using simple formulae	As above	Work in mixed ability pairs
Week 11	Assessment Maths puzzles	End of term assessment using SAT style testing The mystery of the missing Christmas angel	As above	SEN – extra time and support given with reading questions in assessment if necessary.
Week 12	Make a winter themed maths board game	Make a winter themed maths board game	As above	As above
<b>Year 6, term 2:</b>				
Week 1	Squared and cubed numbers Measurements and interpreting scales Conversion charts	Using mm,cm,m,km,ml,l Converting between metric units Reasoning questions using units of measurement		G and T – recognise imperial units and know how to find the metric equivalent.
Week 2	Money	Money reasoning questions and using money to practice the 4 operations using decimals.		As above
Week 3	Fractions, decimals and percentages	Fractions – multiplying and dividing using fractions	As above	As above

		<p>Convert between decimals and fractions</p> <p>Recognise equivalent percentages, fractions and decimals</p>		
Week 4	3 d shapes	<p>Names and features of 3d shapes</p> <p>Nets of 3d shapes</p> <p>Finding volume and surface area of 3d shapes</p>	As above	As above
Week 5	Algebra	<p>Mapping and expressions</p> <p>Powers</p> <p>Using brackets</p> <p>Substituting into formulae and deriving formulae</p>		
Week 6	<p>Averages and probability</p> <p>Mental maths bingo game</p>	<p>Using data and frequency tables to calculate the average.</p> <p>Understand and use a probability scale using words and values</p>	As above	As above
Half term				
Week 7	Time	<p>Problem solving using time</p> <p>Reasoning questions using a time table</p> <p>Creating own word problems using time</p>		
Week 8	<p>Lines and Angles</p> <p>Coordinates</p>	<p>Learn simple angle rules</p> <p>Measure angles using a protractor</p> <p>Read and plot coordinates in all four quadrants</p>	As above	As above
Week 9	Rounding	<p>Rounding to nearest whole number and to one decimal place.</p> <p>Mixed operations questions including BIDMAS rules</p>	As above	As above
Week 10	<p>Maths assessment</p> <p>Reasoning and arithmetic</p>	SAT style maths assessments		As above
Week 11	Maths challenges	<p>The mystery of the Easter bunny costume</p> <p>The mystery of the contaminated chocolate</p>		As above

Week 12	Outdoor maths explorer	A variety of maths based challenges and questions based outside. Including measurements and shapes.	As above	As above
<b>Year 6, term 3:</b>				
Week 1	Geometry	Positions and direction Reflection, rotation and translation of shapes Grid references	As above	As above
Week 2	Decimals	Addition and subtraction using decimals Multiplication and division using decimals Ordering decimal numbers	As above	
Week 3	Triangles Angles	Constructing triangles Different types of triangle Angles using to construct a variety of polygons		
Week 4	Interpreting data	Averages Graph work and frequency diagrams Discrete and continuous data Comparing distributions	As above	As above
Week 5	Ratio and proportion	Understand ratio notation Reduce a ratio to its simplest form Understand relationship between ratio and proportion	As above	As above
Week 6	Algebra	Position to term rules Describing the nth term Functions and mapping		As above
Half term				
Week 7	Roman numerals	Match attax roman numeral activity Practice solving problems using Roman numerals	ICT – research on the internet As above	
Week 8	Revision session	Revision sessions		
Week 9	Assessment	End of year SAT style assessment	As above	
Week 10	Money and time	Create own word problems for other pupils to solve using money and time.		As above
Week 11	Maths puzzles and games	The mystery of the stolen space suit Maths style escape rooms activity	As above	As above
Week 12	<b>Transition work for KS3</b>			