

Assessment Overview

Subject: Maths

Year Group: Year 8

Week Number	Assessment Details	Methods used to Assess	Assessment Framework Aspects covered
1 2	<p>Create factor trees to decompose composite numbers into a product of prime factors</p> <p>X: Same as <good> but with 100% accuracy and able to do this for ‘more challenging’ numbers such as 15379 ($13^2 \times 91$)</p> <p>G: Clear methods displayed for decomposing any composite number into a product of prime factors; writing answers in index form; and able to find square roots and cube roots. Solutions are generally correct, but there may be an error or two in calculations.</p> <p>D: Able to create tree diagrams by taking out factors of 2 and 5. There may be some struggles with taking out other prime factors.</p> <p>M: Not yet developing</p>	Home Learning	N030, N031
3 4	<p>Add and subtract fractions – in class quiz</p> <p>X: Able to add and subtract fractions with unlike denominators and deduce methods for adding and subtracting mixed numbers with unlike denominators (assessment to occur before mixed number lessons)</p> <p>G: Able to add and subtract fractions with unlike denominators.</p> <p>D: Able to add and subtract fractions same denominators and where ONE fraction needs to be scaled – i.e. $\frac{1}{2} + \frac{1}{4}$.</p> <p>M: Not yet developing</p>	Milestone Assessment	N034 XN995
5	Post Test – Autumn 1		N029-N035

6	<p>X: All of good (see below) at 90%+ accuracy.</p> <p>G: 75% accuracy in: identify prime numbers; decomposing composite numbers; working out HCF and LCM of two or more numbers; using HCF and LCM to solve problems; adding and subtracting fractions (including mixed numbered fractions) with like and unlike denominators.</p> <p>D: Be able to do about half of good (see above). Most hangups will occur with division.</p> <p>M: Not yet developing</p>	End of module assessment	OLD: N012
7			
Half Term			
8	REVIEW 1 – CENTRALLY COLLECTED DATA WILL BE REPORTED VIA SIMS		
9	Integers (positive and negative numbers) quiz	Milestone Assessment	N036-N038
10	<p>X: All of (good) but also able to take negative numbers to powers eg $(-2)^5$ without a calculator</p> <p>G: Able to add, subtract, multiply and divide directed numbers as well as being able to arrange in orders. Solutions are mostly correct.</p> <p>D: Able to arranged directed numbers in ascending or descending order. Also able to multiply and divide directed numbers (and <u>usually</u> getting the RULE correct; but may not always get the digits right in the answers)</p> <p>M: Not yet developing</p>		
11	Algebraic Sequences Homework	Home Learning	A010, A011, XA999
12	<p>X: All of (good) and able to use position-to-terms to generate exponential, quadratic and cubic sequences.</p> <p>G: Able to use position-to-term rules to generate a sequence AND take a linear sequence and work out the position-to-term rule.</p> <p>D: Able to use position-to-term rules to generate a sequence.</p> <p>M: Not yet developing</p>		

13	Post Test – Autumn 2 (and end of year review)	End of module test	NEW: A012, A013, A014
14	<p>X: All of good (see below) at 90%+ accuracy.</p> <p>G: 75% accuracy in: solving algebraic equations; position-to-term sequences; using counter-examples to prove something wrong; the four operations with directed numbers; multiplying and dividing with decimal numbers.</p> <p>D: Be able to do about half of good (see above). Most hangups will occur with division.</p> <p>M: Not yet developing</p>		OLD: N011, N012, N031, N032, N035,-N038
15	<p>Accurately construct triangles using compasses, ruler, protractors: SSS, SAS, and ASA type triangles</p> <p>X: All of <G> and able to also draw SSA triangles – sometimes achieving 1 triangle, and sometimes achieving 2 triangles [or 0 possible triangles]. Can also explain why SSA does not always work.</p> <p>G: Accurately draw all three triangles given SSS, SAS, ASA. An appreciation of congruency.</p> <p>D: Able to do one of SSS, SAS, and ASA correctly.</p> <p>M: Not yet developing</p>	Milestone Assessment	G018-G020
Christmas			
16			
17	Home Learning: Angles and Parallel Lines	Home Learning (pages from workbook)	
18	<p>X: Nearly all answers correct including ‘reasons why’. Star question is also attempted and the approach to solving this is clear and concise.</p> <p>G: Most answers generally correct including ‘reasons why’.</p> <p>D: Some answers correct including some ‘reasons why’.</p> <p>M: Not yet developing</p>		
19	Post Test – Spring 1	End of module test	NEW: G021-G024

	<p>X: All of good (see below) at 90%+ accuracy.</p> <p>G: 75% accuracy in: problems involving angles in parallel lines [and angle rules from year 7]; area of trapezia [and other shapes from year 7]; converting among metric AREA measures; accurate triangles (SSS),</p> <p>D: Be able to do about half of good (see above). Most hangups will occur with division.</p> <p>M: Not yet developing</p>		OLD: G007, G009, G011, G015, G018
20	REVIEW 2 – CENTRALLY COLLECTED DATA REPORTED VIA SIMS		
21	<p>Percentage Home Learning</p> <p>X: All of <G> and able to generally get these <u>answers</u> correct AND show multiple <u>correct</u> methods for answering the same problems.</p> <p>G: Work out the percentage of a quantity; increase and decrease by a percentage; use a correct <u>method</u> for working out the whole (given a percentage of the whole); and use a correct <u>method</u> for finding the percentage an amount has been increased or decreased by (with a calculator)</p> <p>D: Work out the percentage of a quantity (with a calculator).</p> <p>M: Not yet developing</p>	Home Learning	N039-N041
Half Term			
22			
23	Ratio Questions	Milestone Assessment	N042, N043 + OTHERS TBD
24	<p>X: All of <G> and able to apply these concepts to solving worded problems.</p> <p>G: Simplify ratios, scale up/down appropriately, AND divide quantities by a ratio</p> <p>D: Find similar ratios and simplify two ratios.</p> <p>M: Not yet developing</p>		

25	Post Test – Spring 2 + end of year review	End of module test	NEW: G025, XN996
26	<p>X: All of good (see below) at 90%+ accuracy.</p> <p>G: 75% accuracy in: solving all percentage problems; solving ratio problems; simplifying algebraic expressions; converting fractions, decimals and percentages; prime numbers; and algebraic sequences.</p> <p>D: Be able to do about half of good (see above). Most hangups will occur with division.</p> <p>M: Not yet developing</p>		<p>OLD: G002, G007, G011, G016, G021, G023, A001, A003, A007, A009-A012, N011, N014, N019, N021, N029, N030, N037, N039-N043</p>
27	<p>Problems to solve involving circumference of circles, arc lengths, and perimeters of sectors. (ROUNDING CORRECTLY)</p> <p>X: All of <G> and able to apply these concepts to solving ‘more complicated’ problems.</p> <p>G: Calculate circumference of a circle, arc lengths ($\frac{1}{2}$ or $\frac{1}{4}$ of a circle), perimeters of shapes, rounding is generally correct.</p> <p>D: Can use the circumference formula.</p> <p>M: Not yet developing</p>	Home Learning / Milestone Assessment	G026, G028, N044
Easter			
28			
29 30	<p>Problems to solve involving circumference and area (and fractions of) circles (ROUNDING CORRECTLY)</p> <p>X: All of <G> and able to apply these concepts to solving ‘more complicated’ problems.</p> <p>G: Calculate area of a circle, area of a sector ($\frac{1}{2}$ or $\frac{1}{4}$ of a circle), rounding is generally correct.</p> <p>D: Can use the area formula.</p> <p>M: Not yet developing</p>	Milestone Assessment	G026-G028, N044
31	Post Test – Summer 1	End of module test	NEW: G029-G032

32	<p>X: All of good (see below) at 90%+ accuracy.</p> <p>G: 75% accuracy in: area and circumference of circles; solving worded problems involving circles' area and circumference</p> <p>D: Be able to do about half of good (see above). Most hangups will occur with division.</p> <p>M: Not yet developing</p>		OLD: G026-G028
Half term			
33 34	<p>Calculate mean, median, mode and range from a set of numbers as well as numbers placed into a table.</p> <p>X: All of <G> and able to answer 'work backwards' questions.</p> <p>G: Calculate the mean, median and mode of a set of data- both in 'listed out' form and when put into a table.</p> <p>D: Calculate the mean or median of a set of data.</p> <p>M: Not yet developing</p>	Milestone Assessment	S005, S006, S008
35 36	<p>End of year exams</p> <p>X: Pupils take the 'depth' paper. Overall score between 'Essentials' and 'Depth' is 80%+ across all four aspects.</p> <p>G: Pupils take the 'depth' paper. Overall score between 'Essentials' and 'Depth' is 70%+ across all four aspects. OR Pupils take the 'fluency' paper. Overall score between 'Essentials' and 'Fluency' is 85%+ across all four aspects.</p> <p>D: Score on 'Essentials' is 35% or higher OR score on 'Fluency' is 50% or higher.</p> <p>M: Not yet developing</p>	End of year exams	<p>NEW: S007, S009</p> <p>OLD ALL: G001, G015, G018, G021-G023, G026, G028, G031, G032, A001, A007, A009-A012, N026, N028-N032, N034, N037, N038, N040-N044, S005, S006, S008, S009</p> <p>EXTRA DEPTH: (NEW) – XG899, XG898, XG897, XG896</p>

			DEPTH (OLD) – G004, G025, A005, A008, A013, XN996, XN995, S004 FLUENCY (OLD) – N001, N004, N019, N021, N023, N029, N030, N036, N042, G004, G005, G013, G015, G032, A003, A005, A009, S004
37	REVIEW 3 – CENTRALLY COLLECTED DATA TO BE REPORTED VIA SIMS		
38			
39			
Summer Holiday			

NB: All assessed pieces of work, including milestone assessments, to be completed or stuck into pupils' exercise books.

X: eXcellece – Skills required to enable children to be ready to target top grades (7-9) at GCSE.

G: Good – Skills required to be “GCSE READY” – ready to target grades (5-7) at GCSE

D: Developing – There are gaps in the skills required to be “GCSE READY”. These children should be aspiring for at least a grade 4 at GCSE, but will require minor intervention to achieve higher than this.

M: eMerging – There are significant gaps in required skills to be “GCSE READY”. To improve – see criteria for what is required to be ‘Developing’. These are the pupils that will require MAJOR INTERVENTION in order to be successful at GCSE.