

KS3 Year 7

Schemes of Work

This is a breakdown of the Year 7 Mathematics content.

To watch videos, take notes, and attempt questions on any topic:

1. Go to <https://vle.mathswatch.co.uk/vle/>
2. Log in using your personalised username and password
3. Click on "Video" in the top menu bar
4. Enter the MathsWatch clip number (as listed in the table below) into the search bar
5. Watch the video or click the yellow "Interactive Questions" button to attempt questions

TOPICS	MATHSWATCH CLIP NUMBERS	COMPLETED
UNIT 2 (Number)		
Mental Arithmetic	N3a, N4a, N2a	
Calculations - Add and Subtract	N3b, N4b, N13a, N14a	
Calculations - Multiplication	N5, N15a, N17ab, N28a	
Calculations - Division	N6, N16, N29a	
Rounding to powers of 10 and Estimation	N27a, N27b	
Money and Time	N7b, N27c	
Negative Numbers – add and subtract	N18, N19a	
Negative Numbers – multiply and divide	N19b	
Square Numbers	N25	
BIDMAS	N20	
Factors, multiples and primes	N10, N11, N30a	
HCF and LCM	N31a, N31b	
Using a calculator	N22b, N44	
UNIT 3 (Expressions, functions and formulae)		
Simplifying expressions (adding and subtracting)	A6,	
Simplifying Expressions (multiplying and dividing)	A7a, A7b	
Expanding Brackets	A8	
Writing expressions	A2, A3, A4	
Substituting into formulae	A10	
Writing formulae	A13a	
Solving equations	A12, A17	
ASSESSMENT 1 - NUMBER, EXPRESSIONS, FUNCTIONS AND FORMULAE		
UNIT 4 (Decimals and measure)		
Place value and Ordering decimals	N1a, N1b, N2b	
Rounding decimals and Estimating	N27b, N43a, N43b	
Multiplying and dividing by powers of 10	N17a, N17b	
Metric conversions	N1c, N7a	
Scales and Measure	N7a, N8, R2	
Add/subtract decimals	N13b, N14b	
Multiplying/Dividing decimals by single digits	N15b, N28b, N40a, N40b	
Perimeter	G8a, G8b	
Area of rectangles	G9, G20a	
Area of compound shapes	G24	
Imperial Conversions	R2	
UNIT 1 (Analysing and displaying data)		
Averages – Mode, Median and Range	S6	
Averages - Mean	S7	
Comparing Averages		
Pictograms	S1a, S1b	
Simple Bar Charts	S2a, S2b	
Dual Bar Charts	S2a, S2b	

Compound Bar charts	S2a, S2b	
Line Graphs		
Frequency tables and tally charts	S3, S4, S10a	
ASSESSMENT 2 – DECIMALS, MEASURE AND DATA		
UNIT 5 (Fractions)		
Comparing fractions	N34	
Equivalent and Simplifying fractions and Improper/Mixed numbers	N23a, N23b, N23c, N35	
Adding and subtracting fractions (same denominator)	N36, N41	
Fractions of quantities	N33, N37a	
Fractions and decimals	N32	
FDP	N32	
Simple Percentages	N24a, N24b	
Percentages of amounts	N24a, N24b, R7	
UNIT 6 (Probability)		
Language of probability	P1, P2a, P2b	
Probability calculations	P1, P2a, P2b	
Mutually Exclusive Events	P3	
Experimental Probability	P7	
Expected Outcomes	P7	
ASSESSMENT 3 – FRACTIONS AND PROBABILITY		
UNIT 7 (Ratio and proportion)		
Direct proportion	R8, R4, R13	
Writing ratio and Simplifying Ratio	R1a, R1b, R5a	
Quantities from a ratio and Unit conversions	R2	
Sharing into given Ratios	R5b	
Proportions and fractions	R3	
Proportions and percentages	N39	
UNIT 8 (Lines and graphs)		
Measuring and drawing angles	G10a, G10b, G10c	
Drawing triangles accurately		
Angles on a line, vertically opposite and angles around a point	G13,	
Angles in triangles	G16, G17	
Quadrilaterals	G14	
ASSESSMENT 4 – RATIO, PROPORTION, LINES AND ANGLES		
UNIT 9 (Sequences and graphs)		
Sequences	N12, A22	
Position to term rule	A11a, A11b	
Nth term rule	A11c	
Coordinates and midpoints	A1a, A1b	
Straight line graphs	A5, A14a	
UNIT 10 (Transformations)		
Congruency and enlargements	G28	
Reflective and Rotational Symmetry	G3, G7	
Reflection	G4a, G4b	
Rotation	G6	
Translations	G5	
Combined transformations		
ASSESSMENT 5 – SEQUENCES, GRAPHS AND TRANSFORMATIONS		

----- End of Year 7 -----