

YEAR 11 MATHEMATICS PASSPORT



Personal Learning Checklist

FOUNDATION TIER

Name: _____

Teacher: _____

My Target Grade is _____

		Green - Got It	Purple - Progressing	Yellow - Not There Yet		
MW Clip	Grade	Topic			Journey to Success	
PROBABILITY						
40	E,F,G	The probability scale				
90a	D	Simple probability (a) Listing outcomes				
90b	D	Simple probability (b) Listing probabilities				
91	D	Mutually exclusive events				
132	C	Experimental probability				
SURVEYS, QUESTIONNAIRES AND DATA COLLECTION						
84	D	Questionnaires & data collection				
134	C	Designing a good questionnaire				
STATISTICAL CALCULATIONS, MEASURES OF TENDENCY AND MEASURES OF SPREAD						
41	E,F,G	The averages				
133a	C	Averages from a table (a) Basics				
133b	C	Averages from a table (b) Estimate for the mean				
STATISTICAL DIAGRAMS						
42	E,F,G	Pictograms				
43	E,F,G	Conversion graphs				
85	D	Two way tables				
86	D	Pie charts				
87	D	Scatter graphs				
88	D	Frequency diagrams				
89	D	Stem and leaf diagrams				

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CALCULATIONS								
5	E,F,G	Multiply & divide by powers of 10						
7	E,F,G	Multiplying & dividing with negatives						
11	E,F,G	Money questions						
16a	E,F,G	Addition & subtraction a) Addition						
16b	E,F,G	Addition & subtraction b) Subtraction						
17	E,F,G	Long multiplication						
18	E,F,G	Long division						
19	E,F,G	Multiplying and dividing with decimals						
21	E,F,G	Half-way values						
50	D	Value for money						
59	D	BODMAS/BIDMAS						
60	D	Long multiplication with decimals						
63	D	Hard calculator questions						
64	D	Real life money calculations						
99	C	Four rules of negatives						
100	C	Dividing by a 2-digit decimals						
126	C	Compound measures						
FRACTIONS, DECIMALS AND PERCENTAGES								
8	E,F,G	Fraction of an amount						
10	E,F,G	Fractions, decimals & percentages						
12	E,F,G	Shading fractions of rectangles						
13	E,F,G	Ordering fractions, decimals & percentages						
47	D	Equivalent fractions						
48	D	Simplifying fractions						
49	D	Ordering fractions						
51	D	% of an amount with calculator						
52	D	% of an amount without calculator						
53	D	Change to % with calculator						
54	D	Change to % without calculator						
55	D	Finding a fraction of an amount						
56a	D	Addition & subtraction of fractions a) Standard method						
56b	D	Addition & subtraction of fractions b) Quick-fix method						
57	D	Multiplying and dividing fractions						
58	D	Changing fractions to decimals						
92	C	Percentages - overview						
93	C	% Increase/decrease						
98	C	Recurring decimals to fractions						
RATIOS, PROPORTIONS AND RATES OF CHANGE								
23	E,F,G	Proportion						
61	D	Ratio						
62	D	Proportion recipe questions						
94	C	Ratio						
ROUNDING AND ESTIMATING								
3	E,F,G	Rounding (nearest 10,100,1000)						
14	E,F,G	Estimation						
20	E,F,G	Rounding to decimal places						
101	C	Estimating answers						

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SETS OF NUMBERS							
1	E,F,G	Place value					
2	E,F,G	Ordering numbers					
6	E,F,G	Negatives in real life					
9	E,F,G	Square & cube numbers					
15	E,F,G	Place value when multiplying					
22	E,F,G	Reciprocals					
26	E,F,G	Powers					
44	D	Factors, multiples & primes					
45	D	Evaluate powers					
46	D	Understand squares, cubes & roots					
95	C	Product of prime factors					
96	C	HCF & LCM					
97	C	Place Value					
EXPRESSIONS AND FORMULAE							
66	D	Substitution					
102a	C	Algebra simplification a) Addition & Subtraction					
102b	C	Algebra simplification b) Multiplication					
103a	C	Expanding brackets a) Single brackets					
103b	C	Expanding brackets b) Double brackets					
104	C	Factorisation					
106	C	Forming equations					
107	C	Changing the subject of a formula					
111	C	Index notation for \times & \div					
GRAPHS							
27	E,F,G	Line graphs					
28	E,F,G	Co-ordinates					
78	D	Finding the midpoint of a line					
113	C	Drawing straight line graphs					
114	C	Finding the equation of a straight line					
116	C	Drawing quadratic graphs					
117	C	Real-life graphs					
SEQUENCES							
29	E,F,G	Number sequences					
65	D	Generate a sequence from the nth term					
112	C	Finding the nth term					
SOLVING EQUATIONS							
30	E,F,G	Number machines					
105a	C	Solving equations a) Balancing method					
105b	C	Solving equations b) Float & ping method					
108	C	Inequalities					
109	C	Solving inequalities					
110	C	Trial and improvement					
115	C	Solving simultaneous equations graphically					

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ANGLES								
31	E,F,G	Angles						
67	D	Parallel lines						
68	D	Angle sum of a triangle						
70	D	Angles of regular polygons						
79	D	Measuring and drawing angles						
80	D	Drawing triangles						
131	C	Bearings						
LENGTHS, AREA AND VOLUME								
33a	E,F,G	Perimeter & area a) Perimeter						
33b	E,F,G	Perimeter & area b) Area of rectangles						
33c	E,F,G	Perimeter & area c) Area of triangles						
33d	E,F,G	Perimeter & area d) Area of parallelograms						
34	E,F,G	Volume of cuboids						
71	D	Areas of circles						
72	D	Circumferences of circles						
73	D	Areas of compound shapes						
120	C	Surface area of cuboids						
121	C	Surface area of triangular prisms						
122	C	Volume of a prism						
MEASURES AND MEASURING								
4	E,F,G	Reading scales						
24	E,F,G	Distance tables						
25	E,F,G	Timetables						
35	E,F,G	Converting metric measures						
124	C	Converting metric units						
125	C	Bounds						
SHAPE (INCLUDING PYTHAGORAS AND TRIGONOMETRY)								
36	E,F,G	Triangles, quadrilaterals & other polygons						
37	E,F,G	Names of solids						
39	E,F,G	Isometric drawing						
69	D	Properties of special triangles						
81	D	Plans and elevations						
82	D	Nets						
118	C	Pythagoras' Theorem						
119	C	Pythagoras - Line on a graph						
127	C	Bisecting a line						
128	C	Drawing a perpendicular to a line						
129	C	Bisecting an angle						
130	C	Loci						
TRANSFORMATIONS AND SYMMETRY								
32	E,F,G	Congruent & similar shapes						
38	E,F,G	Tessellations						
74	D	Rotations						
75	D	Reflections						
76	D	Enlargements						
77	D	Translations						
83	D	Symmetries						
123	C	Similar shapes						