



# Maths Builder



# 6

The ultimate online resource for teaching primary mathematics.

LEVEL

**A Virtual Online Textbook:** Each of the lessons listed is linked to an online worksheet and interactive game that helps students master the content.



## Level 6 suggested teaching program

This suggested teaching program will assist teachers to plan the delivery of primary mathematics content and ensure that all *strands*, *substrands* and *content descriptions* are addressed.

The pages in this program are supported by many other consolidation and extension worksheets that can be found within Maths Builder. For this program, we have selected the worksheets that will provide work that can be covered in a single year.

Clicking on the link beside each worksheet will take you to its online landing page, where the associated interactive game, related resources and the cross-reference to the development of the worksheet content will be found.

This program is based on 35 weeks of work with an average of five lessons per week. The area covered by each page is indicated by the grid on the right-hand side of the program.

### Abbreviations used in this program

Whole Numbers

Addition and Subtraction

Multiplication and Division

Fractions, Decimals and Percentages

Probability (Chance)

Patterns and Algebra

Statistics (Data)

Length

WN

A&S

M&D

FD&P

P(C)

P&A

S(D)

L

Area

Volume and Capacity

Mass

Time

3D Space

2D Space

Position (Direction and Coordinates)

Working Mathematically

A

V&C

M

T

3DS

2DS

P(D&C)

WM

# The Maths Builder Suggested Teaching Program – Level 6

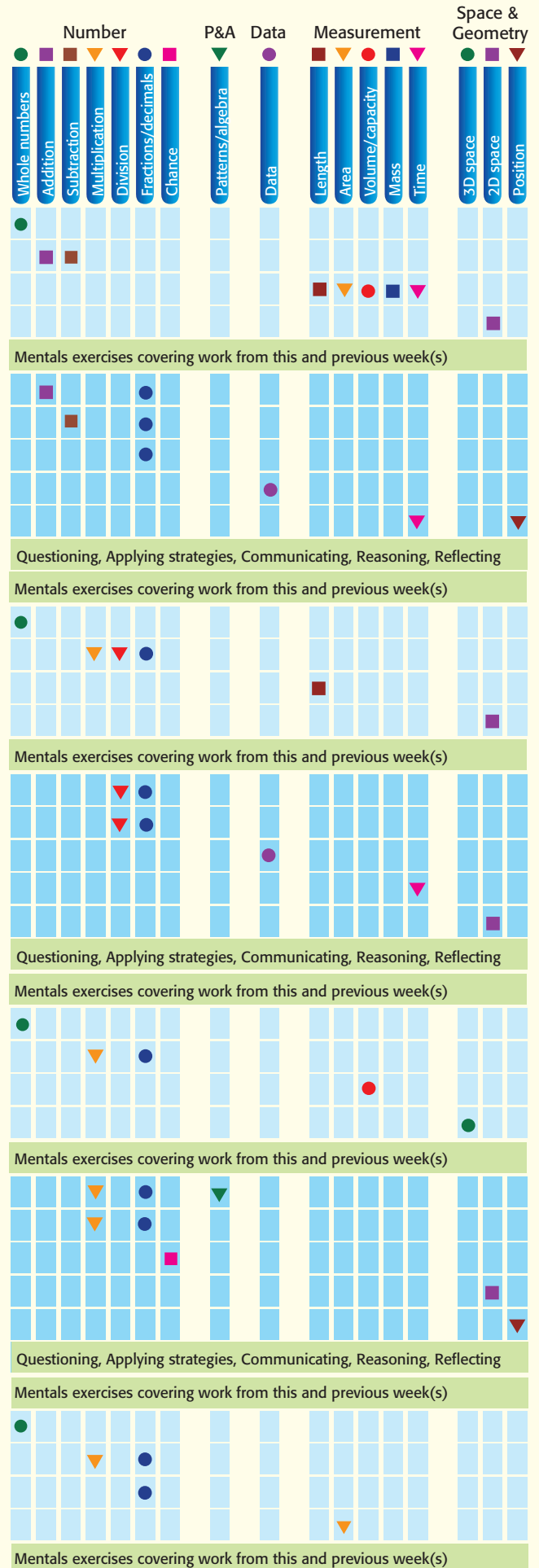
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Week	Lesson	Topic	Code
1	A	2 6-digit numbers	WN 6:01
	B	3 Addition and subtraction strategies	A&S 6:01
	C	4 Measurement	L 6:02, V&C 6:01, M 6:01
	D	5 Identifying angle types	2DS 6:01
	4	Mentals 6:01	WM 6:51
2	A	6 Addition	A&S 6:02
	B	7 Subtraction	A&S 6:03
	C	8 Fractions, decimals & percentages	FD&P 6:01
	D	9 Graphs	S(D) 6:01
	E	10 Using scale to find distance	L 6:01, P(D&C) 6:01
	F	11 Working mathematically	WM 6:02C, P&A 6:04
	6	Mentals 6:02	WM 6:52
3	A	12 6-digit numbers	WN 6:02
	B	13 Division	M&D 6:01
	C	14 mm, cm, m & km	L 6:03
	D	15 Missing arms of angles	2DS 6:02
	8	Mentals 6:03	WM 6:53
4	A	16 Division	M&D 6:02
	B	17 Fractions of a collection	FD&P 6:02
	C	18 Drawing graphs	S(D) 6:02
	D	19 Telling the time	T 6:01
	E	20 Parts of a circle	2DS 6:03
	F	21 Working mathematically	WM 6:02, P&A 6:08
	10	Mentals 6:04	WM 6:54
5	A	22 Whole numbers	WN 6:03
	B	23 Multiplication strategies	M&D 6:03
	C	24 Millilitres and litres	V&C 6:02
	D	25 3D objects	3DS 6:01
	12	Mentals 6:05	WM 6:55
6	A	26 Multiplying by multiples of 10	M&D 6:04
	B	27 Multiplying by multiples of 10	M&D 6:05
	C	28 Chance language	P(C) 6:01
	D	29 Identifying 2D shapes	2DS 6:04
	E	30 Using scale on maps	P(D&C) 6:02
	F	31 Working mathematically	WM 6:03, P&A 6:04
	14	Mentals 6:06	WM 6:56
7	A	32 Rounding large numbers	WN 6:04
	B	33 Multiplication algorithms	M&D 6:06
	C	34 Fractions and mixed numbers	M&D 6:06C, P&A 6:03
	D	35 Area	A 6:01
	16	Mentals 6:07	WM 6:57

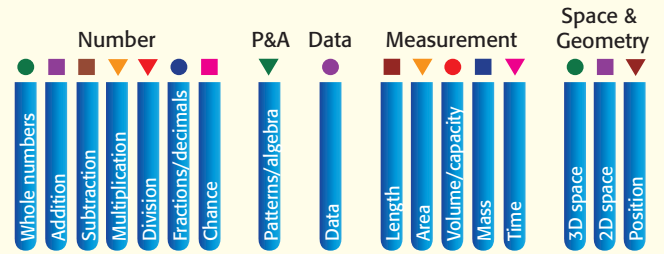


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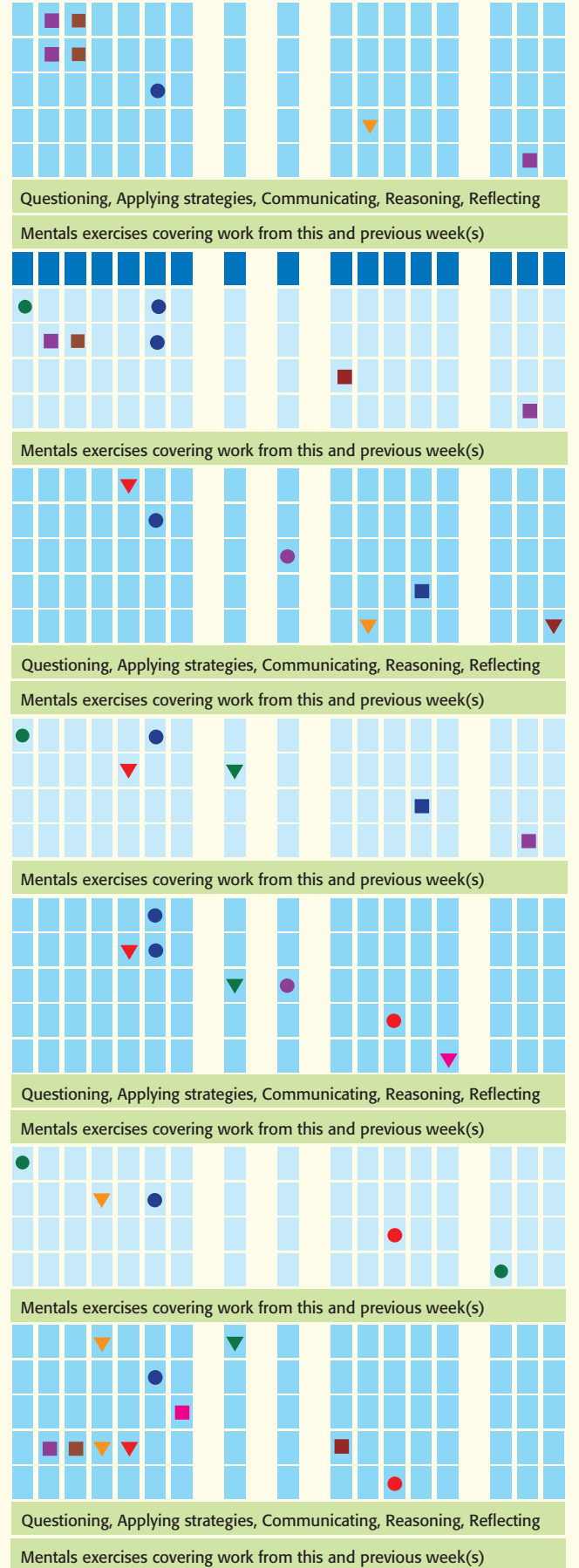
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Week	Lesson	Topic	Textbook Page	Workbook Page
8	A	36 Addition and subtraction strategies	A&S 6:04	
	B	37 Addition and subtraction	A&S 6:05	
	C	38 Mixed numbers & improper fractions	FD&P 6:04	
	D	39 Area of triangles	A 6:02	
	E	40 Comparing quadrilaterals	2DS 6:05	
	F	41 Working mathematically	WM 6:04, P&A 6:04	
	18	Mentals 6:08	WM 6:58	
	42	Term Test 1	Tests and answers 6:02	
9	A	46 Thousandths	FD&P 6:05	
	B	47 6-digit addition & subtraction	A&S 6:06	
	C	48 Perimeter	L 6:04	
	D	49 Measuring & drawing angles	2DS 6:06	
	20	Mentals 6:09	WM 6:59	
10	A	50 Remainders as fractions	M&D 6:07	
	B	51 Addition & subtraction of fractions	FD&P 6:06	
	C	52 Line graphs	S(D) 6:03	
	D	53 Mass	M 6:02	
	E	54 Using scale for plans & drawings	P(D&C) 6:03, A 6:07	
	F	55 Working mathematically	WM 6:05	
	22	Mentals 6:10	WM 6:60	
11	A	56 Place value	WN 6:05, FD&P 6:07	
	B	57 Division strategies	M&D 6:08, P&A 6:01	
	C	58 Mass	M 6:03	
	D	59 Drawing 2D shapes	2DS 6:07	
	24	Mentals 6:11	WM 6:61	
12	A	60 Thousandths	FD&P 6:08	
	B	61 Dividing 3-digit numbers	M&D 6:09	
	C	62 Geometric patterns and data	S(D) 6:04, P&A 6:02	
	D	63 Cubic centimetres & cubic metres	V&C 6:03	
	E	64 Timetables	M&D 6:10C, T 6:02	
	F	65 Working mathematically	WM 6:06	
	26	Mentals 6:12	WM 6:62	
13	A	66 Negative numbers	WN 6:06	
	B	67 Multiplying 4-digit numbers	M&D 6:10	
	C	68 Measuring volume	V&C 6:04	
	D	69 Nets of prisms & pyramids	3DS 6:02	
	28	Mentals 6:13	WM 6:63	
14	A	70 Multiplication	M&D 6:11	
	B	71 Multiplying fractions	FD&P 6:09	
	C	72 Chance	P(C) 6:02	
	D	73 Metres and kilometres	L 6:05	
	E	74 Volume by displacement	V&C 6:05	
	F	75 Working mathematically	WM 6:07	
	30	Mentals 6:14	WM 6:64	

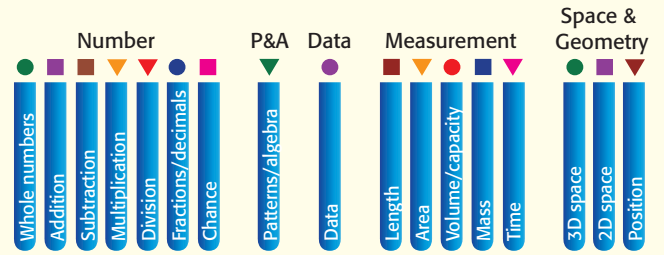


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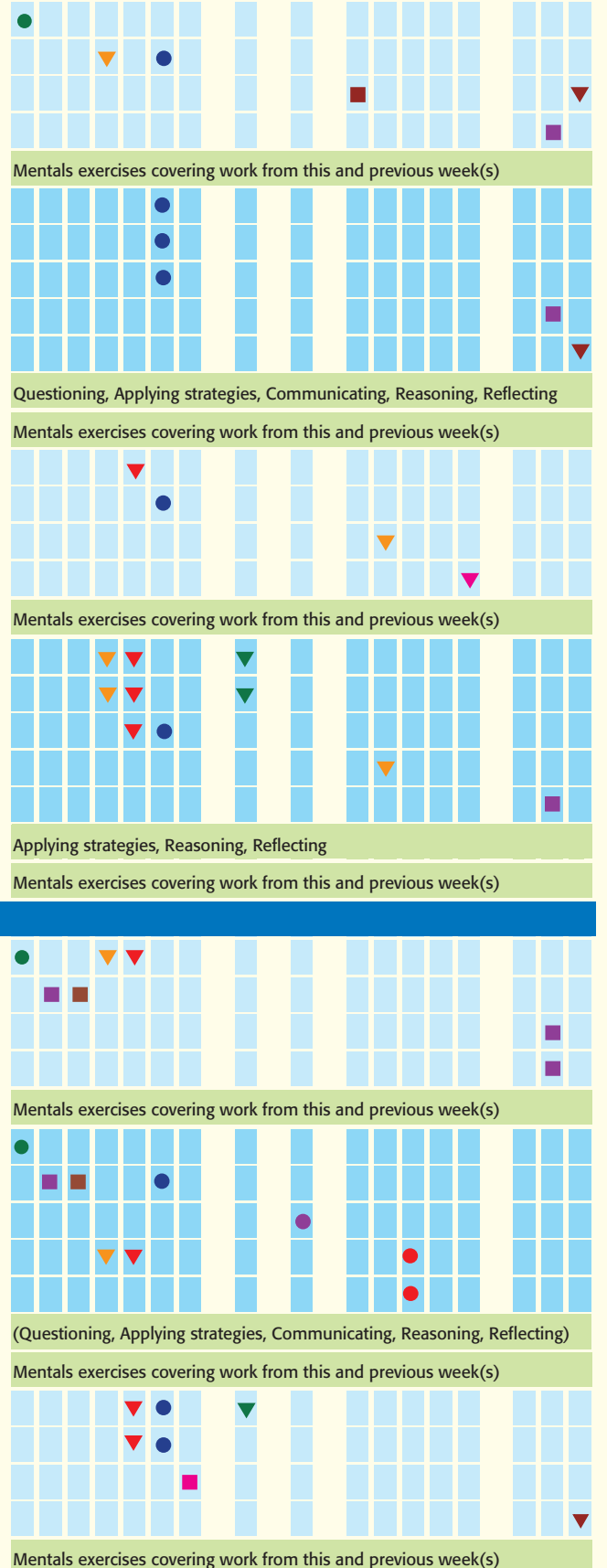
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Week 15	A 76	Roman numerals	WN 6:07
	B 77	Calculating equivalent fractions	FD&P 6:10
	C 78	Estimating longer distances	L 6:06
	D 79	Triangles	2DS 6:08
	32	Mentals 6:15	WM 6:65
Week 16	A 80	Simplifying fractions	FD&P 6:11
	B 81	Finding percentages	FD&P 6:12
	C 82	Converting percentages	FD&P 6:13
	D 83	Calculating size of angles	2DS 6:09
	E 84	Locating places	P(D&C) 6:03
	F 85	Working mathematically	WM 6:08, P&A 6:04
34	Mentals 6:16	WM 6:66	
Week 17	A 86	Divisibility	M&D 6:13
	B 87	Percentage of quantities	FD&P 6:14
	C 88	The hectare	A 6:04
	D 89	Using stopwatches	T 6:03
36	Mentals 6:17	WM 6:67	
Week 18	A 90	Prime and composite numbers	M&D 6:14
	B 91	Multiplication	M&D 6:15
	C 92	Calculating percentages	FD&P 6:15
	D 93	Hectares	A 6:05
	E 94	Circle designs	2DS 6:10
	F 95	Working mathematically	WM 6:07E, P&A 6:07
38	Mentals 6:18	WM 6:68	
Term Test 2			Tests and answers 6:03
Week 19	A 96	Millions	WN 6:07
	B 97	Addition and subtraction to 6-digits	A&S 6:07
	C 98	Measuring reflex angles	2DS 6:11
	D 99	Constructing reflex angles	2DS 6:12
40	Mentals 6:19	WM 6:69	
Week 20	A 100	Roman numerals	WN 6:09
	B 101	Subtraction of 6-digit numbers	A&S 6:08
	C 102	Sector graphs	S(D) 6:05
	D 103	Millilitres and litres	V&C 6:06
	E 104	Calculating volume	V&C 6:07
	F 105	Working mathematically	WM 6:09, P&A 6:05
42	Mentals 6:20	WM 6:70	
Week 21	A 106	Remainders as fractions	M&D 6:16, FD&P 6:16
	B 107	Remainders as decimals	M&D 6:17, FD&P 6:17
	C 108	Chance experiments	P(C) 6:03
	D 109	Reading a street directory	P(D&C) 6:04
44	Mentals 6:21	WM 6:71	



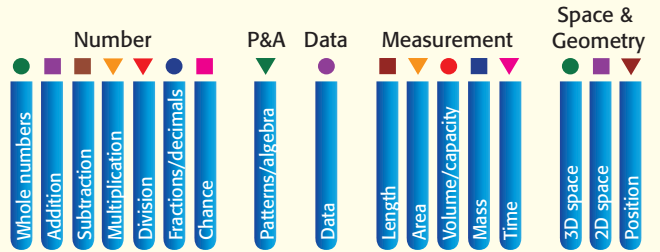


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Week	Lesson	Page	Textbook	Workbook
22	A	110	Dividing by multiples of 10	M&D 6:18
	B	111	Equivalent fractions	FD&P 6:18
	C	112	Sector graphs	S(D) 6:06
	D	113	Perimeter	L 6:07
	E	114	The calendar	T 6:04
	F	115	Working mathematically	WM 6:10, P&A 6:07
		46	Mentals 6:22	WM 6:72
23	A	116	Millions	WN 6:10
	B	117	Adding fractions	FD&P 6:19
	C	118	Speed	L 6:08
	D	119	Calculating area of irregular shapes	A 6:06
		48	Mentals 6:23	WM 6:73
24	A	120	Order of operations	M&D 6:19, P&A 6:03
	B	121	Subtracting fractions	FD&P 6:20
	C	122	Multiplying by multiples of 10	M&D 6:20
	D	123	Surface area of rectangular prisms	A 6:07, V&C 6:08
	E	124	3D objects	3DS 6:03
	F	125	Working mathematically	WM 6:11, P&A 6:05, 6:08
		50	Mentals 6:24	WM 6:74
25	A	126	Millions	WN 6:11
	B	127	Extended multiplication	M&D 6:21
	C	128	Grams, kilograms & tonnes	M 6:04
	D	129	Net weight	M 6:05
		52	Mentals 6:25	WM 6:75
26	A	130	Extended multiplication	M&D 6:22
	B	131	Multiplying by 2-digit numbers	M&D 6:23
	C	132	Sales and discounts	FD&P 6:21
	D	133	Divided bar graphs	S(D) 6:08
	E	134	Daylight saving time	T 6:05
	F	135	Working mathematically	WM 6:12, P&A 6:05
		54	Mentals 6:26	WM 6:76
27	A	136	Larger numbers	WN 6:12
	B	137	Dividing 4-digit numbers	FD&P 6:22
	C	138	Averages	M&D 6:24
	D	139	Rotational symmetry	2DS 6:13
		56	Mentals 6:27	WM 6:77
28	A	140	Addition and subtraction	S(D) 6:08
	B	141	Numbers with 3 decimal places	FD&P 6:23
	C	142	Chance and surveys	S(D) 6:09
	D	143	Making divided bar graphs	S(D) 6:10
	E	144	Rotating patterns	2DS 6:14
	F	145	Working mathematically	WM 6:13, P&A 6:05
		58	Mentals 6:28	WM 6:78

(Questioning, Applying strategies, Communicating, Reasoning, Reflecting)

Mentals exercises covering work from this and previous week(s)

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Questioning, Applying strategies, Communicating, Reasoning, Reflecting

Mentals exercises covering work from this and previous week(s)

Term Test 3	Tests and answers 6:05
146 Multiple choice 1	Tests and answers 6:06

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Week	Lesson	Page	Topic	Textbook Page
29	A	148	Millions of years ago	WN 6:13
	B	149	Adding and subtracting millions	A&S 6:09
	C	150	Speed and distance	L 6:09
	D	151	Mass and volume of water	M 6:06
	60	Mentals 6:29	WM 6:79	
30	A	152	Extended multiplication	M&D 6:25
	B	153	Extended multiplication	M&D 6:26
	C	154	Operations on fractions	FD&P 6:24
	D	155	Types of graphs	S(D) 6:11
	E	156	Length conversions	L 6:10
	F	157	Working mathematically	WM 6:06, P&A 6:06
	62	Mentals 6:30	WM 6:80	
31	A	158	Negative numbers	WN 6:14
	B	159	Extended multiplication	M&D 6:27
	C	160	Volume and capacity	V&C 6:09
	D	161	Maps from aerial views	P(D&C) 6:05
	64	Mentals 6:31	WM 6:81	
32	A	162	Multiplication and division	M&D 6:28
	B	163	Multiplication strategies	M&D 6:29
	C	164	Samples: making predictions	P(C) 6:05
	D	165	Shapes inside circles	2DS 6:15
	E	166	Enlarging and reducing	2DS 6:16
	F	167	Working mathematically	WM 6:15, P&A 6:06, 6:07
	66	Mentals 6:32	WM 6:82	
Term Test 4		Tests and answers 6:07		
33	A	168	Millions to billions	WN 6:15, A&S 6:10
	B	169	Mass problems	M 6:07
	C	170	Time	T 6:06
	D	171	Enlarging & reducing maps	P(D&C) 6:06
34	A	172	Speed tests: mixed operations	S(D) 6:13
	B	173	Division of large numbers	M&D 6:30
	C	174	What type of graph?	S(D) 6:12
	D	175	Drawing 3D objects	3DS 6:04
	E	176	Perspective and depth in 3D	3DS 6:05
	F	177	Working mathematically	WM 6:16, P&A 6:06, 6:07
35	A	178	Measurement problems	A&S 6:11
	B	179	2D space and area	2DS 6:17
	C	180	Mixed operations	FD&P 6:25
	D	181	Chance, data and 3D objects	P(C) 6:06
	182	Multiple choice 2	Tests and answers 6:08	
	184	Important things	Charts and mindmaps 6:10	

