

OCHRE (V2.8) AC F-6					SIGNPOST AC F-6 ALIGNMENT					
Ochre Units	Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page			
YEAR F										
1	Numbers to 10	F	1	Counting collections to 3	AC9MFN03	3B	Counting to 5	11		
		F	2	Representing numbers to 3	AC9MFN01	1A 1B 1C 2A	Zero The number one The number two The number three	2 3 4 6		
		F	3	Writing numerals to 3	AC9MFN01 AC9MFN02 AC9MFN03	1A 1B 1C 2A	Zero The number one The number two The number three	2 3 4 6		
		F	4	Counting collections to 5	AC9MFN01 AC9MFN02 AC9MFN03	3B	Counting to 5	11		
		F	5	Representing numbers on a 5s frame	AC9MFN01	1A 1B 1C 2A 2B 2C	Zero The number one The number two The number three The number four The number five	2 3 4 6 7 8		
		F	6	Writing numerals to 5	AC9MFN01 AC9MFN03	3A	Numbers to five	8		
		F	7	Comparing collections to 5	AC9MFN03	5A 5B 6B	Same and different Same and different Comparing groups	18 19 23		
		F	8	Counting collections to 10	AC9MFN03	6C	Ordering collections	24		
		F	9	Representing numbers to 10	AC9MFN01	3C 4A 6A 26 27 8A	The number six The number seven The number eight The number nine The number ten Numbers to ten	12 14 22 26 27 30		
		F	10	Writing numerals to 10	AC9MFN03	3C 4A 6A 26 27 8A 8B	The number six The number seven The number eight The number nine The number ten Numbers to ten Numbers to ten	12 14 22 26 27 30 31		
		F	11	Comparing collections to 10	AC9MFN03	5A 5B 6B 6C	Same and different Same and different Comparing groups Ordering collections	18 19 23 24		
		F EXT*	12	Representing numbers on a number line	AC9M1N01					
		F	13	Comparing numbers to 10	AC9MFN03	9A	Numbers to 10	34		
2	Shape	F	1	Representing shapes	AC9MFSP01	4C 5C 7C 9D 24D	Circles Squares Rectangles Triangles 2D shapes	16 20 28 37 97		
		F	2	Pictures with shapes	AC9MFSP01	3D 10C 11C	Curved and straight Cutting shapes Shape pictures	13 40 44		
		F	3	Sorting shapes	AC9MFSP01	21C	Classifying 2D shapes	84		
		F	4	Matching shapes to gaps	AC9MFSP01	18C 18D 31D	Shapes Shapes Pattern blocks	72 73 125		
		F	5	Continuing AB patterns	AC9MFA01	18A 18B	Looking for patterns Patterns	70 71		
		F	6	Continuing ABC patterns	AC9MFA01	25A 25B	Everyday patterns Making patterns	98 99		
		F	7	Continuing AABB and AAB patterns	AC9MFA01	18C	Shapes	72		
		F	8	Creating patterns	AC9MFA01	28C	Patterns using sounds and actions	112		

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
3	Part-whole and operations	F 1	Number bonds to 5	AC9MFN01	10A 10B 13A	Adding two groups Adding two groups Adding two groups	38 39 50	
		F EXT* 2	Addition with materials within 5*	AC9MFN01	12A 18A	Adding dots How many more?	46 110	
		F EXT* 3	Subtraction with materials within 5*	AC9MFN01	21A 21B	Taking objects away Taking away	82 83	
		F EXT* 4	Addition with fingers within 5*	AC9MFSP01	ES3	Adding two groups	132	
		F EXT* 5	Subtraction equations within 5 using fingers*	AC9MFSP01				
		F EXT* 6	Number bonds to 10*	AC9MFN04	10A 13B 14A 14B 15A 16A 17A 24A 24B ES8 ES9	Adding two groups Adding two groups Adding two groups Addition Dominoes and dice Adding groups Adding groups Separating a number into parts Separating a number into parts Number bond houses Number bonds (addition)	38 51 54 55 58 62 66 94 95 137 138	
		F EXT* 7	Using ten frames*	AC9MFN05	12B 15B 16B 28A ES5 ES6 ES7	Using five to form numbers Adding groups Adding rows of dots How many more? Adding 1 or 2 Subtracting 1 or 2 Addition number facts to 10	47 59 63 110 134 136 135	
		F EXT* 8	Addition and subtraction with fingers to 10*	AC9MFN05	12B 24C	Using five to form numbers Adding on and counting back	47 96	
		F EXT* 9	Differences and totals*	AC9MFN05	20A	Comparing collections	78	
		F EXT* 10	Using a number line to 10*	AC9MFN05	6B	Counting by tens	23	Year 1
		F EXT* 11	Addition and subtraction with materials within 20*	AC9MFN05 AC9M1N04	22A 22B 23A 23B	Taking away Taking away Taking away Taking away	86 87 90 91	
		F 12	Sharing collections	AC9MFN06	25C 27B 29A 29B 30A 30B	Comparing quantities Using grouping to share Sharing Sharing Sharing in other ways Sharing among 3 or more	100 107 114 115 118 119	
		F EXT* 13	Representing numbers to 40 using base ten blocks*	AC9MFN04 AC9M1N02	6A 6B	Groups of 10 Counting by tens	22 23	Year 1
		F 14	Grouping collections	AC9MFN06	26A 26B 27A 28B	Groups of equal size Matching equal groups Equal groups Equal groups	102 103 106 111	
		F 15	Representing numbers to 120 using base ten blocks*	AC9MFN04 AC9M1N02	11A	Numbers to 100	42	Year 1
4	Data	F 1	Data displays	AC9MFST01	2D 25D 26D	Data Data displays Data displays	9 101 105	
		F 2	Collecting data	AC9MFST01	19D 25D 26D 31B	Gathering data Data displays Data displays Recording the weather	77 101 105 123	
		F EXT* 3	Picture graphs*	AC9M1ST01	14D 16D 28D 31B	Using data displays Using data displays Using data displays Recording the weather	57 65 113 123	
		F EXT* 4	Interpreting picture graphs*	AC9M1ST01	14D 16D 25D	Using data displays Using data displays Data displays	57 65 101	

Ochre Units		Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page	
5	Measurement	F	1	Comparing length	AC9MFM01	1D	Long, short and tall	5	
						9C	Longer and shorter	36	
						22C	Comparing two lengths	88	
						22D	Position and length	89	
						26C	Comparing lengths	104	
		F	2	Comparing height	AC9MFM01	1D	Long, short and tall	5	
						22C	Comparing two lengths	88	
22D	Position and length					89			
				26C	Comparing lengths	104			
				19D	Comparing objects	117			
F	3	Sequencing events	AC9MFM02 AC9MFM02	7D	Daytime and night-time	29			
				15C	Sequencing events in a day	60			
				15D	Days of the week	61			
				20C	Sequencing events	80			
				20D	Days of the week	81			
F	4	Comparing duration	AC9MFM01	17D	Duration of events	69			
F	5	Directly comparing capacity	AC9MFM01	5D	Full, empty and half full	21			
				30C	Comparing capacity	121			
F	6	Indirectly comparing capacity	AC9MFM01	29C	Comparing capacities	116			
				29D	Comparing objects	117			
6	Numbers to 100	F	1	Counting collections to 20	AC9MFN03	9B	Numbers 11 and 12	35	
						11B	Numbers 11 to 20	43	
						19B	Counting to 20	75	
		F	2	Representing numbers to 20	AC9MFN01	9B	Numbers 11 and 12	35	
						11A	Numbers 13 to 20	42	
						47	Using five to form numbers	47	
		F	3	Writing numbers to 20	AC9MFN03	10D	Numbers to 12	41	
F EXT*	4	Number lines to 20*	AC9M1N01	12C	Addition by counting on	48	Year 1		
F	5	Comparing and ordering to 20	AC9MFN01	20A	Comparing collections	78			
F EXT*	6	Comparing and ordering to 100*	AC9MFN01 AC9M1N01	10B	Larger numbers	39	Year 1		
				11A	Numbers to 100	42			
F EXT*	7	Comparing and ordering to 120*	AC9MFN01 AC9M1N01	13A	Numbers to 120	50	Year 1		
				13B	Numbers to 120	51			
7	Position	F EXT*	1	Position in a queue*	AC9MFSP02 AC9M1SP02	17B	Ordinal numbers	67	
						8C	Position	32	
						8D	Language of location	33	
						31A	Location	122	
F EXT*	2	Following directions*	AC9M1SP02	8C	Position	32			
				8D	Language of location	33			
				23C	Left and right	92			
				23D	Giving and following directions	93			
				31A	Location	122			
YEAR 1									
1	Representing number	1	1	Number lines 0 - 20	AC9M1N01	15A	Counting back	58	
						15B	Subtraction	59	
		1	2	Comparing numbers to 20	AC9M1N01	1C	Numbers to 20	4	
						3B	Numbers to 20	3B	
						4A	Numbers to 20	4A	
		1	3	Adding within 20	AC9M1N04	2A	Adding two groups	6	
						2B	Addition sentences	7	
		1	4	Adding using number lines	AC9M1N01	12A	Addition sentences	46	
						12B	Addition	47	
						12C	Addition by counting on	48	
		1	5	Sharing collections	AC9M1N06	21A	Equal groups	82	
						21B	Using groups	83	
23A	Equal groups					90			
23B	Using groups					91			
27A	Sharing					106			
27B	Sharing					107			
				28A	Grouping to share	110			
				28B	How many groups?	111			
1	6	Identifying tens and ones	AC9M1N01	6A	Groups of 10	22			
				6B	Counting by tens	23			
1	7	Number lines 0 - 40	AC9M1N01	24B	Number patterns	95			
				25A	Number patterns	98			
1	8	Comparing numbers to 40	AC9M1N01	6A	Groups of 10	22			
				6B	Counting by tens	23			
1 EXT*	9	Recognising halves*	AC9M2N03	28C	Halves and quarters	112	Year 2		
				31C	Fractions of a whole	124	Year 2		
1 EXT*	10	Shading halves*	AC9M2N03	28C	Halves and quarters	112	Year 2		
				31C	Fractions of a whole	124	Year 2		

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page			
2	Numbers to 1000	1	1	Representing numbers to 10	AC9M1N01	1B 4B	Number revision Friends of 10	3 15	
		1	2	Ordering numbers to 10	AC9M1N01	1A 1B	Number revision number revision	2 3	
		1	3	Representing numbers to 20	AC9M1N01	1C 3A 3B 4A	Numbers to 20 Numbers 11 to 20 Numbers to 20 Numbers to 20	4 10 11 14	
		1	4	Representing numbers to 20 using base ten blocks	AC9M1N02	1C 3B	Numbers to 20 Numbers to 20	4 11	
		1	5	Ordering numbers to 20	AC9M1N01	1C 3A 3B 4A	Numbers to 20 Numbers 11 to 20 Numbers to 20 Numbers to 20	4 10 11 14	
		1	6	Representing numbers to 40 using base ten blocks	AC9M1N02	6B	Counting by tens	23	
		1	7	Number bonds to 40	AC9M1N02	10B	Larger numbers	39	
		1	8	Locating numbers to 40 on a number line	AC9M1N01	6B	Counting by tens	23	
		1	9	Ordering numbers to 40	AC9M1N01	6B	Counting by tens	23	
		1	10	Representing numbers to 100 using base ten blocks	AC9M1N02	6A 6B	Groups of 10 Counting by tens	22 23	
		1	11	Number bonds to 100	AC9M1N02	10B 11A 19A 19C	Larger numbers Numbers to 100 Place value Place value	39 42 74 76	
		1	12	Locating numbers to 100 on a number line	AC9M1N01	1D 7C 13B	Modelling numbers Numbers to 100 Numbers to 120	5 28 51	
		1	13	Finding the nearest 10	AC9M1N01	19D	Finding the nearest 10	77	
		1 EXT*	14	Odd or even?*	AC9M4N02	8A	Odd and even numbers	30	
		1 EXT*	15	Representing numbers to 1000 using base ten blocks*	AC9M2N02	16B 17A 17B	Numbers to 1000 Numbers to 1000 Numbers to 1000	63 66 67	Year 2
3	Shape	1	1	Attributes of polygons	AC9M1N01	13C 18C	The hexagon The pentagon and octagon	52 72	
		1	2	Classifying and sorting polygons	AC9M1SP01	25C 25D	2D shapes Properties of shapes	100 101	
		1	3	Two- and three-shape patterns	AC9M1SP01	1D 32B	Shapes and patterns Making more patterns	5 127	
		1 EXT*	4	3D objects*	AC9M3SP01	5C 5D 17C 17D 20D	Identifying objects Objects in our world Object hunt Recognising 3D objects 3D objects	20 21 68 69 81	
4	Part-whole addition and subtraction	1	1	Addition within 10	AC9M1N02 AC9M1N04	2A 2B	Adding two groups Addition sentences	6 7	
		1	2	Subtraction within 10	AC9M1N02 AC9M1N04	7A 7B	Subtraction Subtraction	26 27	
		1	3	Completing the whole within 10	AC9M1N02 AC9M1N04	2C	Combinations up to 10	8	
		1	4	Completing the difference within 10	AC9M1N02 AC9M1N04	18A 18B 20B	Difference Difference between groups Finding the difference	70 71 79	
		1	5	Completing the whole within 10 using fingers	AC9M1N02 AC9M1N04	9B	Counting on	35	
		1	6	Completing the difference within 10 using fingers	AC9M1N02 AC9M1N04				
		1	7	Addition within 10 using drawing	AC9M1N02 AC9M1N04	2A 2B 8B	Adding two groups Addition sentences Addition to 20	6 7 31	
		1	8	Subtraction within 10 using drawing	AC9M1N02 AC9M1N04	11B 20A	Subtraction to 20 Subtraction by counting on	43 78	

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
4	Part-whole addition and subtraction	1	9	Addition within 10 using a number line	AC9M1N02 AC9M1N04	12A Addition sentences 12B Addition 12C Addition by counting on	46 47 48	
		1	10	Subtraction within 10 using a number line	AC9M1N02 AC9M1N04	14A Subtraction 14B Subtraction 15A Counting back 15B Subtraction 31A Subtraction strategies	54 55 58 59 122	
		1	11	Subtraction within 10 by counting on	AC9M1N02 AC9M1N04	15A Counting back 15B Subtraction	58 59	
		1	12	Whole-part bar models*	AC9M2N04	31A Subtraction strategies	122	
		1	13	Addition turn-around facts	AC9M1N02 AC9M1N04	5A Addition facts	18	
		1	14	Fact families within 10*	AC9M2A02	29B Relating addition and subtraction 29C Relating addition and subtraction 31B Addition facts (extension) 31D Subtraction facts (extension)	115 116 123 125	
		1	15	Adding within 20 (no bridging ten)	AC9M1N02 AC9M1N04	31B Addition facts (extension) 31D Subtraction facts (extension)	123 125	
		1	16	Subtracting within 20 (no bridging ten)	AC9M1N02 AC9M1N04	31D Subtraction facts (extension)	125	
		1	17	Bridging 10 with addition	AC9M1N02 AC9M1N04	30A Bridging to 10 30B Bridging to 10s 30C Bridging to 10s	118 119 120	
		1	18	Bridging 10 with subtraction	AC9M1N02 AC9M1N04			
		1	19	Number bonds bridging 10 (addition)	AC9M1N02 AC9M1N04	29A Looking for tens 30A Bridging to 10 30B Bridging to 10s 30C Bridging to 10s	114 118 119 120	
		1	20	Number bonds bridging 10 (subtraction)	AC9M1N02 AC9M1N04	31A Subtraction strategies	122	
		1	21	Equivalent number sentences	AC9M1N02 AC9M1N04 AC9M3A01	26B Number relationships	103	
		1 EXT*	22	Adding and subtracting within 100*	AC9M2N02 AC9M2N04	23B Building to the next 10	91	Year 2
		1	23	Adding and subtracting multiples of 10	AC9M1N02 AC9M1N04	10B Adding 10s 11B Adding and subtracting 10s	39 43	Year 2
		1 EXT*	24	Adding within 100 by adding 10s*	AC9M2N02 AC9M2N04	11B Adding and subtracting 10s	43	Year 2
		1 EXT*	25	Subtracting within 100 by subtracting 10s*	AC9M2N02 AC9M2N04	11B Adding and subtracting 10s	43	Year 2
		1	26	Estimating by grouping 10	AC9M1N03 AC9M1N04	6A Groups of 10	22	
		1 EXT*	27	Adding within 100 (no regrouping)*	AC9M2N02 AC9M2N04	2:13 Addition to 99 2:31 Addition to 99, no trading	42 60	Year 3
		1 EXT*	28	Subtracting within 100 (no regrouping)*	AC9M2N02 AC9M2N04	2:32 Subtraction, no trading	61	Year 3
1	29	Multiple addends	AC9M1N02 AC9M1N04					
1	30	Adding within 100 with regrouping	AC9M1N02	2:33 Addition to 99 with trading 2:34 Addition with trading	62 63	Year 3		
1	31	Subtracting within 100 with regrouping	AC9M1N02	2:40 Subtraction with trading 2:41 Subtraction with trading	69 70	Year 3		
5	Measurement	1	1	Comparing mass	AC9M1M01	14C Comparing the mass of objects 14D Mass 29D Comparing mass	56 57 117	
		1	2	Ordering by mass	AC9M1M01	14C Comparing the mass of objects 14D Mass 29D Comparing mass	56 57 117	
		1	3	Using informal length units (end to end)	AC9M1M02	6D Units of length 7D Informal units of length 10C Informal units of length 10D Measuring length	25 29 40 41	
		1	4	Using informal length units (unit repeated)	AC9M1M02	6D Units of length 7D Informal units of length 10C Informal units of length	25 29 40	

Ochre Units		Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page	
5	Measurement	1	5	Comparing length using informal units	AC9M1M01 AC9M1M02	6D 10C 10D 15C	Units of length Informal units of length Measuring length Indirect comparison of length	25 40 41 15C	
		1	6	Which is heavier?	AC9M1M01	29D	Comparing mass	117	
		1	7	Using a balance scale	AC9M1M01	14C 14D 29D	Comparing the mass of objects Mass Comparing mass	56 57 117	
		1	8	Capacity using sand	AC9M1M01	11C 11D 12D	Comparing capacities Informal units of capacity Comparing capacities	44 45 49	
		1	9	Capacity using blocks	AC9M1M01	21C 21D	Capacity and volume Capacity and volume	84 85	
		1	10	Dividing lengths	AC9M1M02	32A	The halfway point	126	
6	Multiplication and division	1	1	Skip counting a collection	AC9M1N03 AC9M1A01	21A 23B 24A	Equal groups Using groups Skip counting	82 91 94	
		1 EXT*	2	Writing 2 times tables*	AC9M1N03 AC9M2A03	15C 31B	x 2, x 10 Doubling (2 x) and halving (÷ 2)	60 123	Year 2
		1 EXT*	3	Writing 10 times tables*	AC9M1N03 AC9M1A01 AC9M3A03	15C	x 2, x 10	60	Year 2
		1 EXT*	4	Writing 5 times tables*	AC9M1N03 AC9M1A01 AC9M3A03	2:05 2:07	Number facts, x 5, x 10 2, 5 and 10 times tables	34 36	Year 3
		1	5	Halving collections	AC9M1N06	12A 12B	Half of a group Halves	46 47	Year 2
		1	6	Dividing by sharing	AC9M1N06	27A 27B	Sharing Sharing	106 107	
1	7	Dividing by grouping	AC9M1N06	21B 23A 28A 28B	Using groups Equal groups Grouping to share How many groups?	83 90 110 111			
7	Position	1	1	Ordinal Numbers	AC9M1SP02	17B 4C	Ordinal numbers Ordinal numbers and calendars	67 16	Year F Year 2
		1	2	Following directions	AC9M1SP02	27D 31C 32C	Giving directions Left and right Following directions	109 124 128	
		1	3	Describing paths	AC9M1SP02	4C 4D	Position language Position language	16 17	
8	Data	1	1	Tallying data	AC9M1ST01	24D 32D	Gather and display data Gather and organise data	97 129	
		1	2	Creating picture graphs	AC9M1ST01	32D	Gather and organise data	129	
		1	3	Interpreting picture graphs	AC9M1ST01	2 53 61	Data displays Picture graphs Data displays	9 53 61	
YEAR 2									
1	Place value -- four-digit numbers	2	1	Representing numbers to 100	AC9M2N01	1D 16A	Modelling numbers Numbers to 150	5 62	
		2	2	Representing numbers to 1000	AC9M2N01	16B 17A 17B 18A	Numbers to 1000 Numbers to 1000 Numbers to 1000 Numbers to 1000	63 66 67 70	
		2	3	Estimating and counting by 10s	AC9M2N02	21C	Numbers	84	
		2	4	Estimating collections	AC9M2N01	21C	Numbers	84	
		2	5	Reading and writing 4 digit numbers	AC9M2N01 AC9M3N01	1:11 1:12 1:17 1:18 1:21 1:22	Numbers to 10 000 Numbers to 10 000 Numbers to 10 000 Place value to 10 000 Numbers to 10 000 Numbers to 10 000	11 12 17 18 21 22	Year 3
		2 EXT*	6	Partitioning numbers in different ways*	AC9M2N02 AC9M3N01				Year 3
		2	7	Ordering and comparing 4 digit numbers	AC9M2N01 AC9M2N02 AC9M3N01	1:12 1:21	Numbers to 10 Numbers to 10 000	12 21	Year 3
		2	8	Ordering 4 digit numbers using number lines	AC9M2N01				Year 3

Ochre Units		Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page		
1	Place value -- four-digit numbers	2	9	Adding 10, 100 and 1000 to 4 digit numbers	AC9M2N01 AC9M2N02	1:17 1:21	Numbers to 10 000 Numbers to 10 000	17 21	Year 3	
		2	10	Subtracting 10, 100 and 1000 from 4 digit numbers	AC9M2N01 AC9M2N02	1:21 1:22	Numbers to 10 000 Numbers to 10 000	21 22	Year 3	
		2	11	Rounding 3 and 4 digit numbers to the nearest 10 and 100*	AC9M2N02 AC9M3N05	1:06 1:07 1:18	Rounding to the nearest 10 Rounding to the nearest 100 Place value to 10 000	6 7 18	Year 3	
		2	12	Applying place value knowledge to problem solving	AC9M2N01 AC9M2N02 AC9M3N01					
		2	13	Finding solutions to a problem	AC9M2N01 AC9M2N02	1:01	Counting	1	Year 3	
		2	14	Place value application lesson	AC9M2N01 AC9M2N02 AC9M3N01					
2	Shape and position	2	1	Combining and splitting shapes	AC9M2SP01	7D 33C 34D	Drawing 2D shapes Combine and separate shapes Comparing objects	29 132 137		
		2 EXT*	2	Naming and describing 3D objects*	AC9M2SP01 AC9M3SP01	22C 22D 33D	Prisms and cylinders 3D objects 3D objects	88 89 133		
		2 EXT*	3	Modelling 3D objects*	AC9M2SP01 AC9M3SP01	22D 34D	3D objects Comparing objects	89 137		
		2	4	Turning 2D shapes	AC9M2SP01 AC9M2M05	25C 25D 32C 32D	Turning a shape Turning shapes Quarter turns Half and quarter turns	100 101 128 129		
		2	5	Clockwise and anticlockwise	AC9M2M05	25C 25D 32C 32D	Turning a shape Turning shapes Quarter turns Half and quarter turns	100 101 128 129		
		2	6	Continuing turning patterns	AC9M2M05	25C 25D 32C 32D	Turning a shape Turning shapes Quarter turns Half and quarter turns	100 101 128 129		
		2 EXT*	7	Mapping a familiar place*	AC9M3SP02	4:21	Creating maps	133	Year 3	
		2	8	Identifying objects on a map	AC9M2SP02	1C 35A	Position words Giving directions	4 138		
		2	9	Describing paths	AC9M2SP02	5C 27C 30D 35A	Directions Giving directions Following instructions Giving directions	20 108 121 138		
3	Measurement	2	1	Making an informal tape measure	AC9M2M01	9C 9D 16C 17D	Informal units of length Informal units of length Informal units of length Informal units of length	36 37 64 69		
		2	2	Comparing and ordering by length	AC9M2M01	9C 9D 16C 17D	Informal units of length Informal units of length Informal units of length Informal units of length	36 37 64 69		
		2 EXT*	3	Estimating and measuring length*	AC9M3M02	3:02 3:03	The metre Using the metre	78 79	Year 3	
		2 EXT*	4	Estimating and measuring length to nearest metre*	AC9M3M02	3:10 3:11	Centimetres Measuring with centimetres	87 88	Year 3	
		2	5	Using a balance scale	AC9M2M01	6D 15D 24D	Comparing masses Balance scales Balance scales	33 61 97		
		2	6	Measuring mass with a balance scale	AC9M2M01	6D 15D 24D	Comparing masses Balance scales Balance scales	33 61 97		
		2	7	Indirectly comparing mass	AC9M2M01	6D 24C	Comparing masses Ordering masses	33 96		
		2	8	Ordering masses of objects	AC9M2M01	6D 15D 24C	Comparing masses Balance scales Ordering masses	33 61 96		
		2	9	Solving balance scale problems	AC9M2M01	24C 24D	Ordering masses Balance scales	96 97		
		2	10	Informally measuring capacity	AC9M2M01	10C	Capacity	40		

Ochre Units		Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page			
3	Measurement	2	11	Comparing capacities	AC9M2M01	10D	Ordering capacities	41			
						11C	Capacity	44			
4	Part-whole and addition and subtraction	2	1	Adding on an empty number line	AC9M2N04	2A	Addition	6			
						2C	Addition to 20	8			
						27A	Jump strategy (addition)	106			
						28A	Jump strategy	110			
		2	2	Subtracting by jumping back on an empty number line	AC9M2N04	4A	Subtraction	14			
						8A	Subtraction to 20	30			
						27B	Jump strategy (subtraction)	107			
		2	3	Subtracting by jumping forward on an empty number line	AC9M2N04	28A	Jump strategy	110			
						8A	Subtraction to 20	30			
		2	4	Adding numbers by partitioning	AC9M2N04	34B	Inverse strategy, subtraction	30			
						23A	Building to the next 10	90			
						23B	Building to the next 10	91			
24A	Split strategy (addition)					94					
24B	Split strategy (addition)					95					
25A	Building to the next 10					98					
2	5					Subtracting numbers by partitioning	AC9M2N04	33B	Choosing a strategy	131	
2	6					Completing number patterns	AC9M2A01	13D	Patterns	53	
2	7					Adding mentally	AC9M2N04	18C	Number patterns	72	
								32A	Number patterns	126	
2	8	Subtracting by mentally subtracting	AC9M2N04	32B	Counting by tens	127					
				33A	Using a strategy	130					
2	9	Subtracting by mentally adding	AC9M2N04	33B	Choosing a strategy	131					
				33A	Using a strategy	130					
2	10	Using an algorithm for multi-step operations	AC9M2N04	33B	Choosing a strategy	131					
				34B	Inverse strategy, (subtraction)	135					
2	11	Adding multiple numbers	AC9M2N04	2:35	AdditiOn with 2-digit numbers	64	Year 3				
5	Time	2	1	Time to the hour	AC9M2M04	3C	Analog time	12	Year 1		
						3D	Reading the time	13			
		2	2	Drawing o'clock hands	AC9M2M04	3C	Analog time	12	Year 1		
						3D	Reading the time	13			
		2	3	Describing how clock hands move	AC9M2M04	6C	Clocks	24			
						6D	Analog time	25			
		2	4	Telling time to the half hour	AC9M2M04	6C	Clocks	24			
						6D	Analog time	25			
		2	5	Drawing half past hands	AC9M2M04	6C	Clocks	24			
						6D	Analog time	25			
		2	6	Telling o'clock and half past times	AC9M2M04	6C	Clocks	24			
						6D	Analog time	25			
2	7	Writing digital times*	AC9M2M04 AC9M3M04	3:04	Clocks	80	Year 3				
				3:06	Analog and digital time	82					
2	8	Telling quarter past times	AC9M2M04	6C	Clocks	24					
				6D	Analog time	25					
2	9	Telling quarter to times	AC9M2M04	6C	Clocks	24					
				6D	Analog time	25					
2	10	Analogue to digital time*	AC9M2M04 AC9M3M04	3:04	Clocks	80	Year 3				
				3:06	Analog and digital time	82					
2	11	Using a calendar	AC9M2M03	4D	The Calendar	17					
				29C	Duration of time	116					
2	12	Days in a year and each month	AC9M2M03	31D	Calendars	125					
				4C	Ordinal numbers and calendars	16					
6	Money	2	1	Exchanging coins	AC9M2N06	4D	The calendar	17			
						14D	Money	57			
		2	2	Making \$1	AC9M3N06 AC9M3M06	20A	Australian money	78			
						14D	Money	57			
		2	3	Ordering notes	AC9M2N06	20A	Australian money	78			
		2	4	Counting notes	AC9M2N06	34C	Money	136			
2	5	Exchanging notes	AC9M2N06	34C	Money	136					
2	6	Counting notes and coins	AC9M2N06	21A	Value of coins	82					
				21B	Value of coins	83					
				22A	Amounts to \$2	86					
				31A	Doubling and halving	122					

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page			
7	Working with groups	2	1	Multiplication as equal groups	AC9M3A03 AC9M3N04	7A	Groups and rows	26	
						7B	Multiplication	27	
						13B	Equal groups	51	
		2	2	Writing 2x multiplication equations	AC9M2N05	13B	Equal groups	51	
						14A	Using arrays	54	
						14C	Arrays	56	
		2	3	Solving 2x multiplication with drawing and skip counting	AC9M2N05	13B	Equal groups	51	
						13C	Multiplication	52	
						14B	Using rows	55	
		14C	Arrays	56					
		2 EXT*	4	Writing 5x multiplication equations*	AC9M2N05 AC9M3A03	13C	Multiplication	52	
		2 EXT*	5	Solving 5x multiplication with drawing and skip counting*	AC9M2N05 AC9M3A03	15A	Using skip counting	58	
		15B	Using columns to multiply	59					
		2 EXT*	6	Writing 10x multiplication equations*	AC9M2N05 AC9M3A03	2:05	Number facts, x 5, x 10	34	Year 3
		2 EXT*	7	Solving 10x multiplication with drawing and skip counting*	AC9M2N05 AC9M3A03	15A	Using skip counting	58	
		15B	Using columns to multiply	59					
		15C	x 2, x 10	60					
		2 EXT*	8	Rewriting times tables as repeated addition*	AC9M2N05 AC9M3A03				
2 EXT*	9	Using fingers to solve times tables*	AC9M2N05 AC9M3A03						
2	10	Dividing by 2	AC9M2N05	26A	Division sign	102			
2 EXT*	11	Dividing and multiplying by 2*	AC9M2N05 AC9M3A03	31A	Doubling and halving	122			
31B	Doubling (2 x) and halving ($\div 2$)	123							
2 EXT*	12	Dividing by 5*	AC9M2N05 AC9M3A03	2:24	Sharing and grouping	53	Year 3		
2:25	Modelling division	54							
2 EXT*	13	Dividing by 10*	AC9M2N05 AC9M3A03						
2 EXT*	14	Skip counting to divide*	AC9M2N05 AC9M3A03	26A	Division sign	102			
26B	Division as repeated subtraction	103							
2 EXT*	15	Writing fact family equations*	AC9M2N05 AC9M3A03	2:06	Multiplication facts	35	Year 3		
2:26	Relating x and \div	55							
2:27	Linking x and \div	56							
2:28	\div facts from x facts	57							
2:26	Relating x and \div	55	Year 3						
2:27	Linking x and \div	56							
2:28	\div facts from x facts	57							
2:29	x and \div tables	58							
2:30	Inverse operations	59							
2 EXT*	17	Using bar models to find the whole*	AC9M2N06 AC9M3A03						
2 EXT*	18	Using bar models to find a part*	AC9M2N06 AC9M3A03	22A	Using groups	87			
8	Fractions	2	1	Dividing lengths	AC9M2N03	28C	Halves and quarters	112	
						31C	Fractions of a whole	124	
		2	2	Dividing lengths into eighths	AC9M2N03	31C	Fractions of a whole	124	
						2	3	Shading collections	AC9M2N03
		12B	Halves	47					
		28B	Quarters of a group	111					
		29A	Fractions of a group	114					
		2 EXT*	5	Shading collections (non-unit fractions)*	AC9M3N02	1:09	Fractions of a collection	9	Year 3
		2 EXT*	6	Writing fractions (halves, quarters, eighths)*	AC9M3N02	1:09	Fractions of a collection	9	Year 3
		1:13	Fractions	13					
1:14	Fractions	14							
2	7	Finding half of a collection	AC9M2N03	12A	Half of a group	46			
				12B	Halves	47			
29A	Fractions of a group	114							
29B	Halves/quarters	115							
2	8	Determining a whole given a half	AC9M2N03	31C	Fractions of a whole	124			
2	9	Finding quarters and eighths of a collection	AC9M2N03	28B	Quarters of a group	111			
				29A	Fractions of a group	114			
29B	Halves/quarters	115							

Ochre Units		Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page		
9	Data and probability	2	1	Collecting categorical data	AC9M2ST01	11D	Using tally marks	45		
						18D	Gathering data	73		
						27D	Gather and organise data	109		
		2	2	Creating a table	AC9M2ST01	8C	Lists, graphs and tables	32		
						16D	Telling the story from data	65		
						27D	Gather and organise data	109		
		2	3	Creating a picture graph	AC9M2ST02	16D	Telling the story from data	65		
						26D	Making graphs	105		
						27D	Gather and organise data	109		
YEAR 3										
1	Using five-digit numbers	3	1	Representing numbers to 10 000	AC9M3N01	1:11	Numbers to 10 000	11		
						1:12	Numbers to 10 000	12		
		3	2	Recognising the place value of each digit in a 5-digit number	AC9M3N01	1:17	Numbers to 10 000	17		
						1:18	Place value to 10 000	18		
						1:21	Numbers to 10 000	21		
						1:22	Numbers to 10 000	22		
		3	3	Ordering and comparing numbers beyond 10 000	AC9M3N01	1:27	Numbers over 10 000	27		
						1:28	Numbers over 10 000	28		
		3	4	Ordering and comparing a set of numbers beyond 10 000	AC9M3N01	1:28	Numbers over 10 000	28		
		3	5	Finding 10, 100, 1000 or 10 000 more than a given number	AC9M3N01					
3	6	Finding 10, 100, 1000 or 10 000 less than a given number	AC9M3N01							
3	7	Rounding numbers to the nearest 10	AC9M3N01 AC9M3N05	1:06	Rounding to the nearest 10	6				
3	8	Rounding numbers to the nearest 100	AC9M3N01 AC9M3N05	1:07	Rounding to the nearest 100	7				
3	9	Rounding numbers to the nearest 1000	AC9M3N01 AC9M3N05	1:03	Rounding off	3	Year 4			
3	10	Finding the odd one out	AC9M3N01							
3	11	Applying and consolidating: Reasoning with 5-digit numbers	AC9M3N01							
2	Calculation strategies	3	1	Exploring number sense	AC9M3N03 AC9M3A02	3	Numbers to 1000			
		3	2	Deriving new facts from number bonds (part 1)	AC9M3N03 AC9M3A02	2:03	Addition and subtraction	32		
						2:08	Patterns in + and -	37		
		3	3	Number names	AC9M3N03 AC9M3N01					
		3	4	Recognising the value of each digit in a 2 digit number	AC9M3N03 AC9M3A02 AC9M3A01	1:03	Numbers to 1000	3		
		3	5	Using comparative symbols to compare numbers	AC9M3N03 AC9M3N01	ES11	Estimating products	169	Year 5	
		3	6	Deriving new facts from number bonds (part 2)	AC9M3N03 AC9M3A02 AC9M3A01	2:09	Relating addition and subtraction	38		
						2:16	Mental strategies	45		
		3	7	Finding number bonds for numbers up to 20	AC9M3N03 AC9M3A02	2B	Addition to 20	7	Year 2	
						2C	Addition to 20	8		
		3	8	Applying number bonds within ten to add and subtract	AC9M3N03 AC9M3A02	2:13	Addition to 99	42		
2:16	Mental strategies					45				
3	9	Applying number bonds within twenty to add and subtract	AC9M3N03 AC9M3A02 AC9M3A01							
3	10	Adding and subtracting using round and adjust	AC9M3N03 AC9M3A02 AC9M3A01	2:35	Mental strategies, + and -	56	Year 4			
				2:36	Mental strategies, + and -	57				
3	11	Using round and adjust strategies to subtract and add near doubles	AC9M3N03 AC9M3A02 AC9M3A01	2:35	Mental strategies, + and -	56	Year 4			
				2:36	Mental strategies, + and -	57				
3	12	Using an 'adding on' strategy to find the difference	AC9M3N03 AC9M3A02 AC9M3A01	2:42	Checking subtraction by addition	71				
3	13	Using bar models to solve wordproblems (part 1)	AC9M3N03 AC9M3A02 AC9M3A01							
3	14	Using bar models to solve wordproblems (part 2)	AC9M3N03 AC9M3A02 AC9M3A01							
3	15	Application lesson	AC9M3N03 AC9M3A02 AC9M3A01							

Ochre Units	Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page		
3	Shape	3	1	Creating pyramids and prisms	AC9M3SP01	4:25 4:26	The net of a cube 3D models	137 138	
		3	2	Comparing strengths of models	AC9M3SP01				
		3 EXT*	3	Finding perimeter counting squares*	AC9M4M02	3:13	Perimeter	89	
		3 EXT*	4	Measuring 2D shapes*	AC9M3SP01 AC9M4M02	3:13	Perimeter	89	
		3 EXT*	5	Finding area using tiles*	AC9M3SP01 AC9M4M02	3:32 3:33	Area problems Area using square centimetres	108 109	
		3 EXT*	6	Finding area counting squares*	AC9M3SP01 AC9M4M02	3:20 3:21	Area Area	96 97	
		3 EXT*	7	Using a grid to record area*	AC9M3SP01 AC9M4M02	3:33	Area using square centimetres	109	
		3 EXT*	8	Using a square metre*	AC9M3SP01 AC9M4M02	3:24 3:25	The square metre The square meter	104 105	Year 4
4	Position	3	1	Using a map with grid references	AC9M3SP02 AC9M4SP02	4:12 4:19	Maps Using position in maps	129 136	Year 4
		3	2	Giving directions with a map	AC9M3SP02	4:07 4:08 4:18	Position and giving directions Giving directions Pathways between places	119 120 130	
		3	3	Drawing maps	AC9M3SP02	4:21	Creating maps	133	
		3	4	Using a map in a scavenger hunt	AC9M3SP02				
5	Addition and subtraction	3	1	Adding numbers within 100	AC9M3N03	2:13 2:33 2:34 2:35	Addition to 99 Addition to 99 with trading Addition with trading Addition with 2-digit numbers	42 62 63 64	
		3	2	Subtracting numbers within 100 using a written algorithm	AC9M3N03	2:39 2:40 2:41	Subtraction with trading to 99 Subtraction with trading Subtraction with trading	68 69 70	
		3	3	Adding to 100	AC9M3N03	2:13 2:31	Addition to 99 Addition to 99, no trading	42 60	
		3	4	Subtracting numbers within 100	AC9M3N03	2:32	Subtraction, no trading	61	
		3	5	Addition by counting on	AC9M3N03 AC9M3A01	2:14 2:15	Jump strategy Jump strategy	43 44	
		3	6	Subtracting by 'thinking addition'	AC9M3N03 AC9M3A01	2:42	Checking subtraction by addition	71	
6	Multiplication and division	3	1	Solving times tables by skip counting arrays	AC9M3A03 AC9M3N04	2:06 2:07 2:19 2:20	Multiplication facts 2, 5 and 10 times tables Times tables Multiplication facts	35 36 48 49	
		3	2	Solving times tables by skip counting using fingers	AC9M3A03 AC9M3N04				
		3	3	Dividing by 2, 5 and 10 using arrays	AC9M3A03 AC9M3N04	2:24 2:25 2:26 2:27	Sharing and grouping Modelling division Relating \times and \div Linking \times and \div	53 54 55 56	
		3	4	Dividing by 2, 5 and 10 by skip counting using fingers	AC9M3A03 AC9M3N04				
		3	5	Dividing by 2, 5 and 10 using times tables	AC9M3A03 AC9M3N04	2:28 2:29	\div facts from \times facts \times and \div tables	57 58	
		3	6	Using doubling to solve times tables	AC9M3A03	2:30	Inverse operations, \times and \div	59	
		3 EXT*	7	Multiplying multiples of 10*	AC9M3N04 AC9M4N05	2:54	Multiplying by 10, 100, 1000	80	Year 4
		3	8	Dividing using 4-times tables	AC9M3A03	2:27 2:29	Linking \times and \div \times and \div tables	56 58	
		3	9	Multiplying 2-digit numbers using concrete materials (no regrouping)	AC9M3N04 AC9M4N06				
		3 EXT*	10	Multiplying 2-digit numbers using an algorithm (no regrouping)*	AC9M3N04 AC9M4N06	2:44	The extended form of multiplication	70	Year 5
		3	11	Solving 3-times tables using known facts	AC9M3A03	2:18	Number facts, $\times 3$	47	Year 3
		3	12	Dividing 2-digit numbers using concrete materials (no regrouping)	AC9M3N04 AC9M4N06	2:24 2:25	Sharing and grouping Modelling division	53 54	

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
6	Multiplication and division	3 EXT* 13	Dividing 2-digit numbers using an algorithm (no regrouping)*	AC9M3N04 AC9M4N06	2:27	Dividing 2-digit numbers	53	Year 5
		3 14	Dividing using 3-times tables	AC9M3A03	2:26 2:27 2:29	Relating \times and \div Linking \times and \div \times and \div tables	55 56 58	
		3 15	Multiplying 2-digit numbers (concrete materials, regrouping)	AC9M3N04 AC9M4N06				
		3 EXT* 16	Multiplying 2-digit numbers (written algorithm, regrouping)*	AC9M3N04 AC9M4N06	2:46	The contracted form of multiplication	72	Year 5
		3 17	Dividing 2-digit numbers (concrete materials, regrouping)	AC9M3N04 AC9M4N06				
		3 EXT* 18	Dividing 2-digit numbers (written algorithm, regrouping)*	AC9M3N04 AC9M4N06	2:28 2:29	Dividing 2-digit numbers Dividing 2-digit numbers	54 55	Year 5
		3 19	Using bar models to solve multiplication word problems	AC9M3N06				
		3 20	Using bar models to solve division word problems	AC9M3N06				
		3 EXT* 21	Solving 8 times tables*	AC9M3A03 AC9M4A02	2:11	$\times 8$ tables	32	Year 4
		3 EXT* 22	Solving 9 times tables*	AC9M3A03 AC9M4A02	2:21	$\times 9$ tables	42	Year 4
		3 EXT* 23	Solving 6 times tables*	AC9M3A03 AC9M4A02	2:16	$\times 3$, $\times 6$ tables	37	Year 4
		3 24	Using divisibility rules	AC9M3N07	2:35	Divisibility	61	Year 5
7	Part-whole addition and subtraction	3 1	Adding and subtracting using base ten blocks (no regrouping)	AC9M3N03	2:13 2:31 2:32	Addition to 99 Addition to 99, no trading Subtraction to 99, no trading	42 60 61	
		3 2	Adding and subtracting using algorithm (no regrouping)	AC9M3N03	2:13 2:31 2:32	Addition to 99 Addition to 99, no trading Subtraction to 99, no trading	42 60 61	
		3 3	Finding a whole from parts	AC9M3N06				
		3 4	Finding a part given a whole	AC9M3N06				
		3 5	Adding using base ten blocks (regrouping)	AC9M3N03	2:33 2:34 2:35	Addition to 99 with trading Addition with trading Addition with 2-digit numbers	62 63 64	
		3 6	Subtracting using base ten blocks (regrouping)	AC9M3N03	2:40 2:41	Subtraction with trading Subtraction with trading	69 70	
		3 7	Adding using vertical algorithm (regrouping)	AC9M3N03	2:36 2:37 2:38	Addition, trading for 100 Addition to 999 with one trade Addition, two trades	65 66 67	
		3 8	Subtracting using vertical algorithm (regrouping)	AC9M3N03	2:32 2:33 2:34	Subtraction with trading to 999 Subtraction with trading to 999 Subtraction with 2 trades to 999	53 54 55	Year 4
		3 9	Adding using base ten blocks	AC9M3N03	2:38	Addition, two trades	67	
		3 10	Adding using a written algorithm	AC9M3N03	2:36 2:37 2:38	Addition, trading for 100 Addition to 999 with one trade Addition, two trades	65 66 67	
		3 11	Subtracting using base ten blocks	AC9M3N03	2:31 2:32 2:33 2:34	Subtraction without trading to 999 Subtraction with trading to 999 Subtraction with trading to 999 Subtraction with 2 trades to 999	52 53 54 55	Year 4
		3 12	Subtracting using a written algorithm	AC9M3N03	2:31 2:32 2:33 2:34	Subtraction without trading to 999 Subtraction with trading to 999 Subtraction with trading to 999 Subtraction with 2 trades to 999	52 53 54 55	Year 4
		3 13	Continuing number patterns	AC9M3N03	1:01 1:02 1:16	Counting Counting Making patterns	1 2 16	
		3 14	Solving word problems using bar models	AC9M3N06				

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
8	Chance and data	3	1	Collecting categorical data	AC9M3ST01	5:04	Tables	142
						5:05	Tables and graphs	143
						5:07	Making graphs	145
						5:18	Surveys	156
						5:19	Carry out your own survey	157
		3	2	Creating a picture graph	AC9M3ST02	5:05	Tables and graphs	143
						5:06	Picture graphs	144
						5:07	Making graphs	145
		3	3	Interpreting a picture graph	AC9M3ST02	5:17	Drawing graphs	155
5:06	Picture graphs					144		
3	4	Creating column graphs	AC9M2ST02	5:12	Reading picture graphs	150		
				5:11	Reading tables and graphs	149		
9	Time	3	1	Telling quarter past and to times	AC9M3M04	5:17	Drawing graphs	155
						5:11	Reading tables and graphs	149
						5:20	Researching data	158
						5:14	Class investigation	152
						5:18	Surveys	156
						5:19	Carry out your own survey	157
						5:20	Researching data	158
						5:03	Chance	141
5:09	Possible outcomes	147						
5:10	Chance	148						
3	8	Evaluating a chance experiment	AC9M3P01 AC9M3P02	5:13	Dicey graphs	151		
				5:15	Predicting outcomes	153		
				3:04	Clocks	80		
10	Measurement	3	1	Measuring using a ruler	AC9M3M02	3:05	Analog time	81
						3:06	Analog and digital time	82
						3:14	Analog and digital time	90
						3:15	Analog time	91
						3:16	Analog and digital time	92
						3:02	The metre	78
						3:03	Using the metre	79
						3:10	Centimetres	86
						3:11	Measuring with centimetres	87
3:29	The millimetre	105						
3:30	Using a ruler	106						
3	2	Measuring using a tape measure	AC9M3M02	3:11	Measuring with centimetres	87		
				3:12	Recording length	88		
				3:01	Revision of length	77		
				3:10	Centimetres	86		
				3:24	The gram	100		
				3:25	Using grams	101		
				3:17	The kilogram	93		
				3:19	Using the kilogram	95		
				3:18	Comparing masses	94		
3:25	Using grams	101						
3	3	Comparing and ordering lengths	AC9M3M02	3:27	The millilitre	103		
				3:08	Estimating the litre	84		
				3:09	The litre	85		
				3:08	Estimating the litre	84		
				3:02	The metre	78		
				3:03	Using the metre	79		
				3:10	Centimetres	86		
				3:11	Measuring with centimetres	87		
				3:29	The millimetre	105		
3:30	Using a ruler	106						
11	Fractions	3	1	Drawing and shading collections	AC9M3N02	3:08	Estimating the litre	84
						3:09	The litre	85
						1:09	Fractions of a collection	9
						1:10	Fractions of a whole	10
						1:13	Fractions	13
						1:14	Fractions	14
						1:09	Fractions of a collection	9
						1:10	Fractions of a whole	10
						1:13	Fractions	13
1:14	Fractions	14						
3	2	Dividing and shading shapes	AC9M3N02	1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
3	3	Writing unit fractions of shapes and collections	AC9M3N02	1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
3	4	Drawing and shading fractions of collections	AC9M3N02	1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
3	5	Dividing and shading fractions of shapes	AC9M3N02	1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
3	6	Writing non-unit fractions of shapes and collections	AC9M3N02	1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
3	7	Making the whole	AC9M3N02	1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
3	8	Using bar models to find the unit fraction of a quantity	AC9M3N06	1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
3	9	Using bar models to find the non-unit fraction of a quantity	AC9M3N06	1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		
				1:10	Fractions of a whole	10		
				1:13	Fractions	13		
				1:14	Fractions	14		

Ochre Units		Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page	
12	Money	3	1	Making \$1 out of coins	AC9M3M06	2:11	Shopping Money	40	
		3	2	Making amounts out of coins (up to \$5)	AC9M3M06	2:11 2:12	Shopping Money	40 41	
		3	3	Calculating change by counting up (from \$1)	AC9M3M06	2:11 2:12	Shopping Money	40 41	
		3	4	Calculating change by counting up (from \$2)	AC9M3M06	2:46	Change from \$2	75	
		3	5	Calculating change by counting up (from \$5 and \$10)	AC9M3M06	2:11 2:12	Shopping Money	40 41	
YEAR 4									
1	Reasoning with large numbers	4	1	Identifying the place value of the digits in 6-digit numbers	AC9M4N01	1:02 1:08 1:09	Numbers to 100 000 Large numbers Hundreds of thousands	2 8 9	
		4	2	Comparing 6-digit numbers using inequalities	AC9M4N01	1:09	Hundreds of thousands	9	
		4	3	Ordering and comparing 6-digit numbers using number lines	AC9M4N01				
		4	4	Rounding 6-digit numbers to the nearest 100 000 and 10 000	AC9M4N07	1:03 1:14	Rounding off Rounding off	3 14	
		4	5	Rounding 6-digit numbers to the nearest 1000, 10 000 and 100 000	AC9M4N07	1:03 1:14	Rounding off Rounding off	3 14	
		4	6	Solving problems involving rounding	AC9M4N07	1:13	Numbers using millions	13	
		4	7	Solving problems involving place value and rounding	AC9M4N01 AC9M4N07	1:13	Numbers using millions	13	
		4	8	Revision	AC9M4N01 AC9M4N07	1:02 1:08 1:09 1:13	Numbers to 100 000 Large numbers Hundreds of thousands Numbers using millions	2 8 9 13	
		4	9	Investigating Roman numerals up to 1000		ES11	Estimating products	169	Year 5
		4	10	Solving problems involving Roman numerals					
2	Addition and subtraction within 1000	4	1	Number bonds to 1000	AC9M3N01				
		4	2	Ordering numbers to 1000	AC9M3N01	1:03 1:04	Numbers to 1000 Numbers to 1000	3 4	Year 3
		4	3	Adding without regrouping	AC9M4N06	2:23 2:24	Addition to 999 Addition to 999	44 45	
		4	4	Adding with regrouping	AC9M4N06	2:23	Addition to 999	44	
		4	5	Adding using an algorithm	AC9M4N06	2:24 2:25	Addition to 999 Writing algorithms	45	
		4	6	Subtraction without regrouping	AC9M4N06	2:31	Subtracting without trading to 999	52	
		4	7	Subtraction with regrouping	AC9M4N06	2:32 2:33 2:34	Subtraction with trading to 999 Subtraction with trading to 999 Subtraction with 2 trades to 999	53 54 55	
		4	8	Subtraction using an algorithm	AC9M4N06	2:31 2:32 2:33 2:34	Subtracting without trading to 999 Subtraction with trading to 999 Subtraction with trading to 999 Subtraction with 2 trades to 999	52 53 54 55	
		4	9	Number patterns	AC9M3N07	2:27	Number patterns	48	
		4	10	Two step equations	AC9M4N08				
		4	11	Adding using an empty number line	AC9M4N06	2:16	Mental strategies	45	Year 3
		4	12	Subtracting using an empty number line	AC9M4N06				
		4	13	Adding mentally using partitioning	AC9M4N06	2:58	Partitioning, + and -	79	
		4	14	Subtracting mentally using partitioning	AC9M4N06	2:58	Partitioning, + and -	79	
		4	15	Using a bar model to solve word problems	AC9M4N06				
		4	16	Adding mentally using compensation	AC9M4N06	2:57	Missing number strategies	78	
		4	17	Subtracting mentally using constant difference	AC9M4N06	2:59	Mental strategies, + and -	80	

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page			
3	Shape	4	1	Classifying symmetry	AC9M4SP03	4:10	Investigating polygons	127	
		4	2	Completing symmetrical shapes	AC9M4SP03	4:02 4:04	Symmetry Symmetry around us		Year 3
		4	3	Finding rotational symmetry	AC9M4SP03	4:25	Rotational symmetry	142	
		4	4	Sketching 3D objects	AC9M4SP01	4:04	3D objects	121	
						4:05	Prisms and pyramids	122	
						4:06	Faces of prisms and pyramids	123	
						4:07	Prisms and pyramids	124	
		4:14	Cones, cylinders and spheres	131					
		4	5	Constructing objects from cubes	AC9M4SP01	4:15	Views of 3D objects	132	
4	6	Comparing to right angles	AC9M4M04	4:02 4:08	Angles and 2D shapes Drawing angles	119 125			
4:09	Angles as quarter and half turns	126							
4	7	Comparing angles	AC9M4M04	4:03 4:21	Comparing angles Acute and obtuse angles	120 138			
4:22	Angles of any size	139							
4	8	Naming angles	AC9M4M04	4:21 4:22	Acute and obtuse angles Angles of any size	138 139			
4	Multiplication and division facts	4	1	Solving 8-times tables	AC9M4A02	2:11	$\times 8$ tables	32	
						2:12	$\times 8$ tables	33	
						2:30	Multiplication tables review	51	
						2:46	\times and \div tables (by 2, 4, 8)	67	
		4	2	Solving 9-times tables	AC9M4A02	2:21	$\times 9$ tables	42	
						2:22	$\times 9$ tables	43	
						2:30	Multiplication tables review	51	
						2:49	\times and \div tables (by 3, 6, 9)	70	
		4	3	Solving 6-times tables	AC9M4A02	2:16	$\times 3$, $\times 6$ tables	37	
						2:17	$\times 3$ and $\times 6$ tables	38	
						2:30	Multiplication tables review	51	
						2:49	\times and \div tables (by 3, 6, 9)	70	
4	4	Solving 7-times tables	AC9M4A02	2:29 2:30	$\times 7$ tables Multiplication tables review	50 51			
5	Addition and subtraction (4 digit)	4	1	Adding hundreds, tens and ones	AC9M4N06				
		4	2	Subtracting hundreds, tens and ones	AC9M4N06	2:37 2:38	Subtraction from hundreds Subtraction from hundreds strategy	58 59	
		4	3	Adding using algorithm (no regrouping)	AC9M4N06	2:24	Addition to 999	45	
		4	4	Subtracting using an algorithm (no regrouping)	AC9M4N06	2:31	Subtraction without trading to 999	52	
		4	5	Adding using concrete materials (regrouping)	AC9M4N06	2:23	Addition to 999	44	
		4	6	Adding using vertical algorithm (regrouping)	AC9M4N06	2:23	Addition to 999	44	
						2:24	Addition to 999	45	
		2:25	Writing algorithms	46					
		4	7	Subtracting using concrete materials (regrouping)	AC9M4N06	2:32	Subtraction with trading to 999	53	
						2:33	Subtraction with trading to 999	54	
2:34	Subtraction with 2 trades to 999	55							
4	8	Subtracting using vertical algorithm (regrouping)	AC9M4N06	2:32	Subtraction with trading to 999	53			
				2:33	Subtraction with trading to 999	54			
2:34	Subtraction with 2 trades to 999	55							
4	9	Subtracting using vertical algorithm (regrouping across zeros)	AC9M4N06	2:33	Subtracting with trading to 999	53			
6	Time	4	1	Calculating elapsed time to the hour	AC9M4M03	3:11	Using 12- and 24-hour time	97	Year 5
		4	2	Determining finishing time	AC9M4M03	3:12	24-hour time problems	98	Year 5
						3:17	Problems involving time	103	
		4	3	Determining start time	AC9M4M03	3:12	24-hour time problems	98	Year 5
		4	4	Calculating elapsed time to five minutes	AC9M4M03				
		4	5	Determining finishing time to five minutes	AC9M4M03				
		4	6	Determining start time to five minutes	AC9M4M03			110	
		4	7	Calculating elapsed time to the minute	AC9M4M03	3:03	Analog and digital time	83	
						3:30	The passage of time		
4	8	Determining finishing time to the minute	AC9M4M03	3:03	Analog and digital time	83			
4	9	Determining start time to the minute	AC9M4M03						

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
7	Chance and data	4	1	Collecting discrete data	AC9M4ST01 AC9M4ST03	5:08 Tally marks 5:09 Collecting information 5:12 Surveys 5:15 Carry out your own survey	151 152 155 158	
		4	2	Creating picture graphs	AC9M4ST01 AC9M4ST02	5:13 Graphing data	156	
		4	3	Interpreting picture graphs	AC9M4ST01	5:13 Graphing data	156	
		4	4	Collecting and representing data	AC9M4ST03	5:01 Drawing tables	144	
		4	5	Interpreting column graphs	AC9M4ST01	5:04 Using graphs 5:05 Reading graphs	147 148	
		4	6	Ordering probability of events	AC9M4P01	5:02 Chance 5:03 Chance 5:06 Ordering events	145 146 149	
		4	7	Classifying pairs of events as dependent or independent	AC9M4P01			
		4	8	Conducting a chance experiment	AC9M4P02	5:13 Graphing data 5:14 Chance experiments 5:16 Chance experiments	156 157 159	
		4	9	Interpreting the results of a chance experiment	AC9M4P02	5:13 Graphing data 5:14 Chance experiments 5:16 Chance experiments	156 157 159	
8	Multiplication and division	4	1	Represent multiplication as equal groups	AC9M4N06	2:26 Relating \times and \div 2:27 Linking \times and \div	55 56	Year 3
		4	2	Write 2x multiplication equations	AC9M4N06 AC9M4A02	2:07 2, 5 and 10 times tables	36	Year 3
		4	3	Solve 2x multiplication with drawing and skip counting	AC9M4N06 AC9M4A02	2:02 Multiplication tables revision	23	
		4	4	Write 5x multiplication equations	AC9M4N06 AC9M4A02	2:07 2, 5 and 10 times tables	36	Year 3
		4	5	Solve 5x multiplication with drawing and skip counting	AC9M4N06 AC9M4A02	2:02 Multiplication tables revision	23	
		4	6	Write 10x multiplication equations	AC9M4N06 AC9M4A02	2:54 Multiplying by 10, 100, 1000	75	
		4	7	Solve 10x multiplication with drawing and skip counting	AC9M4N06 AC9M4A02	2:05 Number facts, $\times 5$, $\times 10$	34	Year 3
		4	8	Use the commutative property for 10x multiplication	AC9M4N06	2:55 Dividing by 10, 100, 1000	76	
		4	9	Use the commutative property for 2, 5 and 10x multiplication	AC9M4N06 AC9M4A02	2:04 Times tables review	25	
		4	10	Solve division by grouping	AC9M4N06 AC9M4A02	2:24 Sharing and grouping 2:25 Modelling division	53 54	Year 3
		4	11	Solve division by sharing	AC9M4N06 AC9M4A02	2:24 Sharing and grouping 2:25 Modelling division	53 54	Year 3
		4	12	Divide by 2	AC9M4N06 AC9M4A02	2:40 Understanding division 2:41 Division facts 2:42 Division facts	61 62 63	
		4	13	Divide by 5	AC9M4N06 AC9M4A02	2:39 Division as repeated subtraction 2:40 Understanding division 2:41 Division facts 2:42 Division facts 2:50 Division facts	60 61 62 63 71	
		4	14	Divide by 10	AC9M4N06 AC9M4A02	2:55 Dividing by 10, 100, 1000	76	
		4	15	Link multiplication and division facts	AC9M4N06 AC9M4A02	2:41 Division facts 2:42 Division facts 2:46 \times and \div tables (by 2, 4, 8) 2:49 \times and \div tables (by 3, 6, 9) 2:50 Division facts	62 63 67 70 71	
9	Measurement	4	1	Comparing lengths using a ruler	AC9M4M01	3:04 Using a ruler 3:05 Centimetres and millimetres 3:06 Using millimetres 3:21 Comparing measurements	84 85 86 101	
		4	2	Comparing lengths using a trundle wheel	AC9M4M01	3:23 Recording lengths	103	
		4	3	Comparing lengths using a tape measure	AC9M4M01	3:05 Centimetres and millimetres 3:23 Recording lengths	85 103	
		4	4	Measuring mass in g	AC9M4M01	3:15 Measuring mass 3:16 Using grams	95 96	
		4	5	Measuring mass in g and kg	AC9M4M01	3:15 Measuring mass 3:31 Measuring mass	95 111	
		4	6	Measuring using a thermometer	AC9M4M01	3:10 Temperature 3:11 Recording temperature	90 91	

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page			
9	Measurement	4	7	Measuring area using paper	AC9M4M02	3:21 3:22	The square metre The square metre	104 105	
		4	8	Finding perimeter using a trundle wheel	AC9M4M02				
		4	9	Finding perimeter using grid squares	AC9M4M02	3:13	Perimeter		Year 3
		4	10	Measuring perimeter using a ruler	AC9M4M02	3:13	Perimeter		Year 3
		4	11	Drawing rectangles	AC9M4M02	3:20	Perimeter	106	Year 5
		4	12	Comparing areas	AC9M4M02	19C	Comparing areas		Year 2
		4	13	Comparing area by counting squares	AC9M4M02	3:07	Square centimetres	87	
		4	14	Comparing area by skip counting	AC9M4M02				
		4	15	Measuring area using tiles	AC9M4M02	3:08	The square centimetre	88	
		4	16	Measuring area using a grid	AC9M4M02	3:08 3:09 3:33	The square centimetre The square centimetre Finding area	88 89 113	
		4	17	Measuring area using grid squares	AC9M4M02	3:08 3:09	The square centimetre The square centimetre	88 89	
		4	18	Measuring capacity in mL	AC9M4M01	3:12 3:13	Using millilitres Using millilitres	92 93	
		4	19	Measuring capacity in L	AC9M4M01	3:14	Using L and mL	94	
		10	Fractions and decimals	4	1	Finding equivalent fractions (halves, quarters, eighths)	AC9M4N03	1:11 1:12	Equivalent fractions Equivalent fractions
4	2			Finding equivalent fractions (fifths, tenths)	AC9M4N03	1:11	Equivalent fractions	11	
4	3			Finding equivalent fractions (thirds, sixths, twelfths)	AC9M4N03	1:12	Equivalent fractions	12	
4	4			Counting by halves, quarters, and thirds using a number line	AC9M4N04	1:10	Fraction patterns	10	
4	5			Writing tenths as mixed numerals and decimals	AC9M4N03	1:17	Tenths	17	
4	6			Representing decimals by shading ten grids	AC9M4N03	1:17	Tenths	17	
4	7			Adding decimals by shading ten grids	AC9M4N03				
4 EXT*	8			Converting mixed numerals to improper fractions by drawing*	AC9M4N03 AC9M5N03	1:06 1:07	Improper fractions Mixed numbers	6 7	
4 EXT*	9			Converting mixed numerals to improper fractions through multiplication*	AC9M4N03 AC9M5N03	1:07	Mixed numbers	7	
4	10			Writing fractions and decimals	AC9M4N03	1:15 1:16	Hundredths Decimals	15 16	
4	11			Shading a hundreds grid	AC9M4N03	1:15 1:16	Hundredths Decimals	15 16	
4 EXT*	12			Converting improper fractions to mixed numerals by drawing*	AC9M4N03 AC9M5N03	1:06	Mixed numbers	6	Year 5
4 EXT*	13			Converting improper fractions to mixed numerals through division*	AC9M4N03 AC9M5N03	1:11	Improper fractions, mixed numbers	11	Year 5
4	14			Using bar models to find fractions of a quantity	AC9M4N08				
4	15	Using bar models to find a whole	AC9M4N08						
11	Position	4	1	Using a map with grid references and compass directions	AC9M4SP02	4:16 4:17 4:18 4:19	Compass directions Compass directions Describing position Using position in maps	133 134 135 136	
		4	2	Using the scale on a map with grid references and compass directions	AC9M4SP02	4:12 4:13 4:16 4:17 4:11 4:12 4:21	Maps Creating a map Compass directions Compass directions Compass directions Reading a map Mapping Australia	129 130 133 134 123 124 133	Year 5

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
YEAR 5								
1	Integers	5	1	Understanding other powers of ten within one-million	ACM3N01	1:02 ES1 Place value using powers of 10 Powers of 10	2 152	Year 6
		5	2	Reading and writing 7-digit numbers	ACM3N01	1:01 1:02 1:03 Numbers using millions Large numbers Using large numbers	1 2 3	
		5	3	Understanding how the digits in a number indicate its structure	ACM3N01	1:01 1:02 1:03 Numbers using millions Large numbers Using large numbers	1 2 3	
		5	4	Compare and order numbers to ten million	ACM3N01	1:02 Large numbers	2	
		5	5	Rounding to a required degree of accuracy	AC9M4N07	1:03 2:04 Using large numbers Rounding	3 30	
		5	6	Estimating and rounding contexts	AC9M4N07			
		5	7	Strategies for addition	AC9M4N08	2:05 Strategies, + and -	31	
		5	8	Strategies for subtraction	AC9M4N08	2:05 Strategies, + and -	31	
		5	9	Applying addition and subtraction	AC9M4N08	2:55 2:56 Problem solving Problem solving	81 82	Year 6
2	Addition and subtraction (part 1)	5	1	Deriving addition and subtraction facts	AC9M4N06			
		5	2	Deriving addition and subtraction facts by using given calculations	AC9M4N06			
		5	3	Choosing appropriate addition strategies	AC9M4N06	2:05 Strategies, + and -	31	
		5	4	Choosing appropriate subtraction strategies	AC9M4N06	2:05 Strategies, + and -	31	
		5	5	Applying and consolidating: Related number facts and appropriate strategies	AC9M4N06			
		5	6	Adding using the column method	AC9M4N06	2:22 Addition to 9999	48	
		5	7	Adding using the column method, when multiple columns require regrouping	AC9M4N06	2:23 Addition to 9999	49	
		5	8	Subtracting using the column method	AC9M4N06	2:24 Subtraction to 9999	50	
		5	9	Subtracting using the column method, when multiple columns require regrouping	AC9M4N06	2:25 Subtraction from 1000s	51	
		5	10	Subtracting from multiples of 1000	AC9M4N06	2:25 Subtraction from 1000s	51	
		5	11	Applying and consolidating: Column method for addition and subtraction	AC9M4N06	2:22 2:23 2:24 2:25 Addition to 9999 Addition to 9999 Subtraction to 9999 Subtraction from 1000s	49 49 50 51	
		5	12	Representing one-step word problems	AC9M4N06			
		5	13	Representing comparison word problems	AC9M4N06			
		5	14	Solving two-step word problems	AC9M4N06			
		5	15	Applying and consolidating: Word problems and bar models	AC9M4N06			
3	Improper fractions	5	1	Converting mixed numerals to improper fractions by drawing	AC9M5N03	1:06 Mixed numbers	6	
		5	2	Converting improper fractions to mixed numerals by drawing	AC9M5N03	1:06 Mixed numbers	6	
		5	3	Converting mixed numerals to improper fractions by multiplying	AC9M5N03	1:11 Improper fractions, mixed numbers	11	
		5	4	Converting improper fractions to mixed numerals by dividing	AC9M5N03	1:11 Improper fractions, mixed numbers	11	
		5	5	Ordering numbers and fractions	AC9M5N03	1:11 Improper fractions, mixed numbers	11	

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
4	Time	5	1	Converting between 24 and 12 hour time	AC9M5M03	3:10 24-hour time 3:11 Using 12- and 24-hour time 3:16 24-hour time	96 97 102	
		5	2	Calculating elapsed time	AC9M5M03	3:10 Time units 3:12 24-hour time problems 3:16 24-hour time	95 98 102	
		5	3	Calculating finishing time	AC9M5M03	3:10 Time units 3:13 24-hour time problems 3:17 Problems involving time	95 98 103	
		5	4	Calculating start time	AC9M5M03	3:17 Problems involving time	103	
5	Deriving multiplication and division facts	5	1	Multiplication as repeated addition	AC9M5N06			
		5	2	Multiplication as arrays	AC9M5N06	2:39 Mental strategies for multiplication	65	
		5	3	Multiplication: fact families and division	AC9M5N06 AC9M5N07	2:56 Linking \times and \div	77	Year 4
6	Applying multiplication and division facts	5	1	Multiplying multiples of 10	AC9M4N06	2:31 Multiplying 10s 2:31 Multiplying tens or hundreds	57 58	
		5	2	Multiplying using concrete materials	AC9M4N06			
		5	3	Multiplying using an algorithm	AC9M4N06	2:44 The extended form of multiplication 2:45 The extended form of multiplication 2:46 The contracted form of multiplication 2:47 The contracted form of multiplication	70 71 72 73	
		5	4	Dividing using concrete materials (regrouping, no remainder)	AC9M4N06	2:27 Dividing 2-digit numbers 2:28 Dividing 2-digit numbers	53 54	
		5	5	Dividing using algorithm 1 (regrouping, no remainder)	AC9M5N06	2:27 Dividing 2-digit numbers 2:28 Dividing 2-digit numbers	53 54	
		5	6	Dividing using algorithm 2 (regrouping, no remainder)	AC9M5N06	2:29 Dividing 2-digit numbers 2:30 Dividing 3-digit numbers	55 56	
		5	7	Applying the distributive property	AC9M5N06	2:39 Mental strategies for multiplication 2:43 Multiplying 2-digit numbers 2:56 Multiplication by 2-digit numbers	65 69 82	
		5	8	Using bar models for multiplication	AC9M5N09			
		5	9	Using bar models for division	AC9M5N09			
		5	10	Applying the associative property	AC9M5N06	2:41 Multiplying by a multiple of 10	67	Year 6
		5	11	Dividing using an algorithm (fractional remainder)	AC9M5N07	2:29 Dividing 2-digit numbers	55	
		5	12	Finding unknowns in multiplication equations	AC9M5A02	2:46 Number sentences 2:47 Number sentences	72 73	Year 6
		5	13	Finding unknowns in division equations	AC9M5A02	2:46 Number sentences 2:47 Number sentences	72 73	Year 6
		5	14	Representing remainders as decimals	AC9M5N07	2:33 Division of large numbers by 10	59	Year 6
		5	15	Apply distributive property to solve multiplication problems	AC9M5N06	2:39 Mental strategies for multiplication 2:43 Multiplying 2-digit numbers 2:56 Multiplication by 2-digit numbers ES10 Extended multiplication	65 69 82 168	
		5	16	Apply associative property to solve multiplication problems	AC9M5N06	2:41 Multiplying by a multiple of 10	67	Year 6
		5	17	Multiplying by powers of 10	AC9M5N06 AC9M4N05	2:34 \times and \div by powers of 10	60	Year 6
		5	18	Dividing multiples of 10 by powers of 10	AC9M5N06 AC9M4N05	ES1 Powers of ten	153	Year 6
		5	19	Dividing by powers of 10	AC9M5N06 AC9M4N05	2:34 \times and \div by powers of 10 ES1 Powers of 10	60 153	Year 6
		5	20	Multiplying 2-digit by 2-digit numbers using an algorithm	AC9M5N06	2:56 Multiplication by 2-digit numbers 2:57 Multiplication by 2-digit numbers 2:58 Multiplication by 2-digit numbers 2:59 Multiplication by 2-digit numbers	82 83 84 85	
		5	21	Generating number sequences	AC9M5N10	2:42 Algebraic thinking	68	
		5	22	Divisibility facts	AC9M5N10	2:35 Divisibility	61	
		5	23	Using decision trees for division	AC9M5N10			

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page			
7	Shape and angle	5	1	Constructing 3D objects	AC9M5SP01	4:01 4:16	3D space Views and nets of 3D objects	113 128	
		5	2	Sketching nets of prisms and pyramids	AC9M5SP01	4:05 4:16	Nets Views and nets of 3E objects	117 128	
		5	3	Translating and reflecting	AC9M5SP03	4:03 4:04 4:22	Reflection, translation, rotation Flip, slide, turn Using transformations	115 116 134	
		5	4	Rotating shapes	AC9M5SP03	4:03 4:04 4:22	Reflection, translation, rotation Flip, slide, turn Using transformations	115 116 134	
		5	5	Working with lines of symmetry	AC9M5SP03	4:02 4:04	Symmetry Symmetry around us	114 116	Year 3
		5	6	Working with rotational symmetry	AC9M5SP03	4:13 4:14 4:15	Rotational symmetry Measuring angles of rotation Rotational symmetry	125 126 127	
		5	7	Measuring angles (acute, right, obtuse)	AC9M5M04	4:07	Using a protractor	119	
		5	8	Measuring angles (acute, right, obtuse, straight and reflex)	AC9M5M04	4:08 4:09 4:20	Angle types in degrees Using a protractor Angles greater than 180°	120 121 132	
		5	9	Constructing angles (acute, right, obtuse)	AC9M5M04	4:09 4:19	Using a protractor Drawing angles	121 131	
		5	10	Constructing angles (acute, right, obtuse, straight and reflex)	AC9M5M04	4:09 4:19	Using a protractor Drawing angles	121 131	
		5	11	Estimating size of angles	AC9M5M04	4:09	Using a protractor	121	
8	Decimals	5	1	Writing fractions, mixed numerals and decimals for hundreds grids	AC9M5N04	1:06 1:07 ES1 ES2	Mixed numbers Tenths and hundredths Decimals Place value in decimals	6 7 159 160	
		5	2	Shading hundreds grids	AC9M5N04	1:06 ES2	Mixed numbers Place value in decimals	6 160	
		5	3	Representing decimals on a number line	AC9M5N01	1:07	Tenths and hundredths	7	
		5	4	Making a whole using decimals	AC9M5N04				
		5	5	Shading hundreds grids (half, fifths, quarters)	AC9M5N04	1:04	Fractions	4	
		5	6	Writing fractions, mixed numerals and decimals for thousand grids	AC9M5N04	1:06	Mixed numbers	6	
		5	7	Shading hundreds grids (decimals to thousandths)	AC9M5N04	1:07	Tenths and hundredths	7	
		5	8	Comparing and ordering thousandths	AC9M5N01	1:14 1:15 1:20 1:21 ES6	Place value to thousandths Place value and decimals Comparing decimals Comparing decimals Comparing decimals	14 15 20 21 164	
		5	9	Rounding decimals	AC9M5N04	1:20	Comparing decimals	20	
		5	10	Writing fractions as decimals and percentages (tenths, hundredths)	AC9M5N04	1:08 1:09 1:03 1:04	Percentages Using percentages Percentages Percentages	8 9 3 4	Year 6
		5	11	Writing fractions as decimals and percentages (half, quarter, fifths)	AC9M5N04	1:08 1:09	Percentages Using percentages	8 9	
5	12	Rounding to estimate	AC9M5N04	2:27	Estimating with decimals	53	Year 6		
9	Addition and subtraction (part 2)	5	1	Adding using a vertical algorithm (regrouping)	AC9M4N06	2:06 2:07 2:08 2:22 2:23	Addition to 999 Addition to 999 Using the addition algorithm Addition to 9999 Addition to 9999	32 33 34 48 49	
		5	2	Subtracting using a vertical algorithm (regrouping across zeroes)	AC9M4N06	2:09 2:10 2:24 2:25	Subtraction with trading Subtraction to 999 Subtraction to 9999 Subtraction from 1000s	35 36 50 51	
		5	3	Using fact families to solve addition equations	AC9M4N06	2:60	Finding missing numbers	86	
		5	4	Using fact families to solve subtraction equations	AC9M4N06	2:60	Finding missing numbers	86	

Ochre Units		Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page	
9	Addition and subtraction (part 2)	5	5	Bar modelling for addition	AC9M4N06				
		5	6	Bar modelling for subtraction	AC9M4N06				
		5	7	Adding numbers using a number line	AC9M4N06	2:09	Jump strategy, +	30	Year 4
		5	8	Subtracting numbers using a number line	AC9M4N06	2:10	Jump strategy, -	31	Year 4
		5	9	Adding numbers using partitioning	AC9M4N06	2:05	Strategies, + and -	31	
		5	10	Subtracting numbers using partitioning	AC9M4N06	2:05	Strategies, + and -	31	
		5	11	Adding numbers using compensation	AC9M4N06	2:05	Strategies, + and -	31	
		5	12	Subtracting numbers using constant difference	AC9M4N06	2:05	Strategies, + and -	31	
10	Perimeter and area	5	1	To calculate and measure perimeter	A9M5M02	3:03 3:04 3:20	Perimeter Perimeter Perimeter	89 90 106	
		5	2	To calculate the area of rectangles	A9M5M02	3:05 3:06	Calculating area Square metres	91 92	
		5	3	To calculate the area of basic compound shapes	A9M5M02	3:07	Area	93	
		5	4	Finding area by counting squares	AC9M5M02	3:05	Calculating area	91	
		5	5	Calculating area by multiplying grid squares	AC9M5M02	3:05 3:06	Calculating area Square metres	91 92	
		5	6	Calculating area by multiplying length and width	AC9M5M02	3:06 3:07	Square metres Area	92 93	
		5	7	Calculating area and perimeter	AC9M5M02	3:21	Exploring perimeter and area	107	
		5	8	To compare the area and perimeter of rectangles	A9M5M02	3:21	Exploring perimeter and area	107	
		5	9	To calculate the area of non-rectilinear shapes	A9M5M02	3:08 3:11	Perimeter and area Perimeter and area	90 93	Year 6
		5	10	Calculating a missing side given length and area	AC9M5M02	3:08	Perimeter and area	90	Year 6
		5	11	Costing area	AC9M5M02				
5	12	Costing area and perimeter	AC9M5M02						
11	Grid coordinates	5	1	Writing coordinates on a Cartesian plane (one quadrant only)	AC9M5SP02	4:06 4:17 4:18	Describing position Coordinates on the number plane Using coordinates	118 129 130	
		5	2	Plotting coordinates on a Cartesian plane (one quadrant only)	AC9M5SP02	4:15 4:16	The number plane Number plane challenge	124 125	Year 6
		5	3	Writing coordinates of shapes (one quadrant only)	AC9M5SP02				
		5	4	Drawing shapes on a Cartesian plane (one quadrant only)	AC9M5SP02				
12	Adding and subtracting fractions	5	1	Adding and subtracting fractions by drawing (same denominator)	AC9M5N05	1:12 1:13	Addition of fractions Subtraction of fractions	12 13	
		5	2	Adding and subtracting fractions using a number line (same denominator)	AC9M5N05	1:12 1:13 1:16	Addition of fractions Subtraction of fractions Addition and subtraction of fractions	12 13 14	
		5	3	Adding and subtracting fractions mentally (same denominator)	AC9M5N05	1:16	Addition and subtraction of fractions	14	
		5	4	Adding related fractions	AC9M5N05	1:23	Using fractions	23	
		5	5	Subtracting related fractions	AC9M5N05	1:23	Using fractions	23	

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page			
13	Data	5	1	Using and representing a rating scale	AC9M5ST01 AC9M5ST03	5:04	Surveys	139	
		5	2	Interpreting tables	AC9M5ST01 AC9M5ST03	5:16	Collecting data	151	
		5	3	Interpreting column graphs (small intervals)	AC9M5ST01 AC9M5ST03	5:17 5:21	Data collected over time Reasoning with graphs	152 156	
		5	4	Collecting large-scale categorical data	AC9M5ST01 AC9M5ST03	5:17 5:18	Data collected over time Data investigation	152 153	
		5	5	Representing data in a table and column graph	AC9M5ST01 AC9M5ST03	5:02	Drawing graphs	137	
		5	6	Interpreting column graphs (large intervals)	AC9M5ST01 AC9M5ST03	5:01	Reading graphs	136	
		5	7	Interpreting line graphs	AC9M5ST02	5:09 5:10 5:12	More line graphs Reading line graphs Matching graphs with stories	144 145 147	
14	Chance	5	1	Conducting chance experiments	AC9M5P01	140 142 5:15	Choosing at random Comparing the chances Collecting chance data	140 142 150	
		5	2	Representing probabilities using fractions	AC9M5P01	5:13 5:14	Chance as a fraction Chance	148 149	
		5	3	Predicting results of probability experiments	AC9M5P01 AC9M5P02	5:14	Chance	149	
YEAR 6									
1	Whole number and quantity	6	1	Determining prime and composite numbers	AC9M6N02	2:49 2:50	Prime and composite numbers Primes and composites	75 76	
		6	2	Comparing and ordering integers	AC9M6N01	1:08 1:09 1:10	Positive and negative numbers Ordering integers Using integers	8 9 10	
		6 EXT*	3	Calculating the difference between integers*	AC9M6N01 AC9M7N07	1:10 1:11	Using integers Using negative numbers	10 11	
		6 EXT*	4	Subtracting positive integers resulting in a negative integer *	AC9M6N01 AC9M7N07				
		6 EXT*	5	Adding positive integers to negative integers*	AC9M6N01 AC9M7N07				
		6 EXT*	6	Adding negative integers to positive integers*	AC9M6N01 AC9M7N07				
		6	7	Product of factors	AC9M6N02	2:51	Divisibility and factors	77	
		6	8	Extending number sequences for additive and multiplicative patterns	AC9M6A02	1:06	Patterns	6	
		6	9	Describing number patterns using numerical expressions	AC9M6A02	2:54	Algebraic thinking	80	
2	Fractions	6	1	Identify, Describe and Represent Fractions	AC9M6N03	1:12 1:13 1:14	Fractions Fractions of a group Fractions of a group	12 13 14	
		6	2	Understanding Equivalence	AC9M6N05	1:17 1:18 1:19	Equivalent fractions Equivalent fractions Equivalent fractions	17 18 19	
		6	3	Finding Equivalent Fractions	AC9M6N05	1:17 1:18 1:19	Equivalent fractions Equivalent fractions Equivalent fractions	17 18 19	
		6	4	Compare Fractions Less Than One	AC9M6N05	1:05	The order of unit fractions	5	Year 5
		6	5	Working with Fractions Greater than One	AC9M6N05	1:11	Improper fractions, mixed numbers	11	Year 5
		6	6	Adding Fractions	AC9M6N05	1:20 1:21 1:25	Operations with fractions Operations with fractions Addition of fractions	20 21 25	
		6	7	Subtracting Fractions	AC9M6N05	1:20 1:21 1:26	Operations with fractions Operations with fractions Subtraction of fractions	20 21 26	
		6	8	Decimal and fraction equivalence	AC9M6N05	1:09	Using percentages	9	Year 5
		6	9	Converting between decimals and fractions	AC9M6N05	1:09	Using percentages	9	Year 5
		6	10	Fractions problem solving	AC9M6N05	1:22	Problems using fractions	22	

Ochre Units		Year Level	Ochre Lessons		AC outcome/s	Unit	Signpost Lessons	Page	
3	Working with fractions	6	1	Converting mixed numerals to improper fractions by multiplying	AC9M6N05	1:05	Improper fractions, mixed numbers	5	
		6	2	Converting improper fractions to mixed numerals by dividing	AC9M6N05	1:05 1:12	Improper fractions, mixed numbers Fractions	5 12	
		6	3	Simplifying fractions	AC9M6N05	1:19	Equivalent fractions	19	
4	Angle and shape	6	1	Find the value of missing angles	AC9M5M04	4:05	Angles	114	
		6	2	Compare and classify triangles	AC9M5M04	4:23	Using angles	135	Year 5
		6	3	Compare and classify quadrilaterals	AC9M5M04				
		6	4	Find unknown angles in triangles	AC9M5M04	4:23	Using angles	135	Year 5
		6	5	Find the value of missing angles in quadrilaterals	AC9M5M04				
		6	6	Measuring angles using a protractor	AC9M5M04	4:04	Angle types	113	
		6	7	Constructing an angle using a protractor	AC9M5M04	4:04 4:05	Angle types Angles	113 114	
		6	8	Drawing angles	AC9M5M04	4:04 4:05	Angle types Angles	113 114	
		6	9	Calculating complementary angles	AC9M6M04	4:11	Complementary angles	120	
		6	10	Calculating supplementary angles	AC9M6M04	4:12	Supplementary angles	121	
		6	11	Creating prisms and pyramids	AC9M5SP01	4:18	Properties of 3D objects	127	
		6	12	Calculating angles around a point	AC9M6M04	4:13	Angles at a point	122	
		6	13	Calculating vertically opposite angles	AC9M6M04	4:14	Vertically opposite angles	123	
5	Addition and subtraction problem solving	6	1	Using and explaining addition strategies	AC9M6N09	2:05	Strategies, + and -	31	Year 5
		6	2	Using and explaining addition and subtraction strategies	AC9M6N09	2:05	Strategies, + and -	31	Year 5
		6	3	Adding and subtracting using multiples of 10, 100, 1000, 10 000 and 100 000	AC9M6N09	2:04 2:20	Subtraction review 5-digit subtraction from 10 000s	30 46	
		6	4	Adding and subtracting using the 'round and adjust' strategy	AC9M6N09	2:38	Using rounding	64	
		6	5	Adding and subtracting using partitioning	AC9M6N09	2:18 2:19 2:20	Addition of large numbers Subtraction of large numbers 5-digit subtraction from 10 000s	44 45 46	
		6	6	Rounding to estimate	AC9M5N08	2:38	Using rounding	64	
		6	7	Adding using the column method	AC9M6N09	2:18	Addition of large numbers	44	
		6	8	Subtracting using the column method	AC9M6N09	2:19	Subtraction of large numbers	45	
		6	9	Problem solving using the column method	AC9M6N09	2:20	5-digit subtraction from 10 000s	46	
		6	10	Solving multi-step addition and subtraction problems	AC9M6N09	2:55 2:56	Problem solving Problem solving	81	

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
6	Multiplication and division	6	1	Divisibility facts	AC9M5N10	2:51	Divisibility and factors	77
		6	2	Using decision trees for division	AC9M5N10			
		6	3	Dividing using an algorithm (fractional remainder)	AC9M6N06	2:16	Division involving fractions	42
		6	4	Representing remainders as decimals	AC9M6N06	2:46 2:47	Number sentences Number sentences	72 73
		6	5	Finding unknowns in multiplication equations	AC9M6A02	2:46 2:47	Number sentences Number sentences	72 73
		6	6	Finding unknowns in division equations	AC9M6A02	2:35 2:36 2:37	Division of decimals Division of decimals A strategy for division	61 62 63
		6	7	Apply distributive property to solve multiplication problems	AC9M6N06	2:42 2:43 2:44 ES9	Multiplication by 2-digit numbers Multiplication by 2-digit numbers Multiplication by 2-digit numbers Multiplication by 2-digit numbers	68 69 70 161
		6	8	Apply associative property to solve multiplication problems	AC9M6N06	2:41	Multiplying by a multiple of 10	67
7	Grid coordinates	6	1	Writing coordinates on a Cartesian plane (one quadrant only)	AC9M6SP02	4:15 4:16	The number plane Number plane challenge	124 125
		6	2	Drawing shapes on a Cartesian plane (one quadrant only)	AC9M6SP02			
		6	3	Writing coordinates on a Cartesian plane	AC9M6SP02	4:17	The 4 quadrants	126
		6	4	Plotting points on a Cartesian plane	AC9M6SP02	4:17	The 4 quadrants	126
		6	5	Writing coordinates of shapes	AC9M6SP02			
		6	6	Drawing shapes on a Cartesian plane	AC9M6SP02			
8	Time	6	1	Interpreting timetables	AC9M6M03	3:09 3:10 ES22	Elapsed time Timetables Timetables	91 92 174
		6	2	Planning a journey	AC9M6M03	3:10	Timetables	92
9	Decimals and percentages	6	1	Adding and subtracting decimals	AC9M6N04	2:24 2:25 2:26	Adding thousandths Adding decimals Subtraction of decimals	50 51 52
		6	2	Using 50%	AC9M6N07 AC9M6N08	1:23 1:24	Finding percentages Finding percentages	23 24
		6	3	Using 10%	AC9M6N07 AC9M6N08	1:23 1:24	Finding percentages Finding percentages	23 24
		6	4	Using multiples of 10%	AC9M6N07 AC9M6N08	1:23 1:24	Finding percentages Finding percentages	23 24
		6	5	Using 25%	AC9M6N07 AC9M6N08	1:23 1:24	Finding percentages Finding percentages	23 24
10	Perimeter, area and volume	6	1	Calculating perimeters of composite shapes	AC9M5M02	3:12	Area strategy	94
		6	2	Calculating perimeters of composite shapes	AC9M5M02	3:08	Perimeter and area	90
		6	3	Finding missing side lengths of rectangles given perimeter	AC9M5M02	3:08	Perimeter and area	90
		6	4	Relating perimeter to fencing cost	AC9M5M02	3:08	Perimeter and area	90
		6	5	Calculating rectangle area using a formula	AC9M6M02	3:07	Area of a rectangle	89
		6	6	Calculating area and perimeter using a ruler	AC9M6M02	3:14	Comparing area and perimeter	96

Ochre Units	Year Level	Ochre Lessons	AC outcome/s	Unit	Signpost Lessons	Page		
10	Perimeter, area and volume	6	7	Finding missing side lengths of rectangles given area	AC9M6M02	3:08	Perimeter and area	90
		6	8	Calculating areas of rectangular composite shapes	AC9M6M02	3:07 3:12 3:14	Area of a rectangle Area strategy Comparing area and perimeter	89 94 96
		6	9	Calculating areas of rectangular composite shapes by subtraction	AC9M6M02	3:11 3:14	Perimeter and area Comparing area and perimeter	93 96
		6	10	Applying area	AC9M6M02	3:13	Area and perimeter problems	95
		6 EXT*	11	Calculating area of parallelograms*	AC9M7M01			
		6 EXT*	12	Calculating the area of triangles*	AC9M7M01	3:08 3:13	Perimeter and area Area and perimeter problems	90 95
		6 EXT*	13	Calculating volume of prisms by counting blocks*	AC9M7M02	ES24	Volume of prisms	176
		6 EXT*	14	Calculating volume of prisms using dimensions*	AC9M7M02	ES23 ES25 ES26	Volume of prisms Volume of prisms Volume of prisms	175 177 178
11	Fraction operations	6	1	Adding fractions	AC9M6N05	1:15	Operations with fractions	15
		6	2	Adding mixed numbers	AC9M6N05	1:15	Operations with fractions	15
		6	3	Adding and subtracting fractions (simplest form)	AC9M6N05	1:15 1:16	Operations with fractions Subtracting fractions	15 16
		6	4	Adding and subtracting fractions with related denominators	AC9M6N05	1:20 1:21	Operations with fractions Operations with fractions	20 21
		6	5	Adding and subtracting fractions with related denominators making denominators the same	AC9M6N05	1:20 1:21 1:25 1:26	Operations with fractions Operations with fractions Addition of fractions Subtraction of fractions	20 21 25 26
		6	6	Multiplying fractions using repeat addition	AC9M6N05			
		12	Data	6	1	Constructing column graphs	AC9M6ST03	5:02
6	2			Interpreting column graphs	AC9M6ST01	5:06 5:08 5:09	Mode and range The median The spread of scores	139 140 141
6	3			Constructing side-by-side column graphs	AC9M6ST01	5:02	Side-by-side column graphs	134
6	4			Interpreting side-by-side column graphs	AC9M6ST01	5:02	Side-by-side column graphs	134
6	5			Collecting numerical data	AC9M6ST03	5:18	Collecting information	150
6	6			Constructing a line graph	AC9M6ST03	5:03	Line graphs	135
6	7			Interpreting line graphs	AC9M6ST03	5:03 5:20	Line graphs Unusual graphs	135 152
6	8			Identifying misleading data representations	AC9M6ST02	5:11 5:12	Misleading displays Misleading displays	143 144
13	Chance	6	1	Estimating probabilities	AC9M6P01 AC9M6P02	5:05 5:06	Chance as a percentage or decimal Ordering probabilities	137 138
		6	2	Estimating probabilities of an event	AC9M6P01 AC9M6P02	5:04 5:06 5:14	Chance as a fraction Ordering probabilities Chance: expected results	136 138 146
		6	3	Conducting probability trials	AC9M6P01 AC9M6P02	5:10 5:15 5:19	Frequency histograms Chance simulations Repeating an experiment	142 147 151
		6	4	Calculating % frequency	AC9M6P01 AC9M6P02			
		6	5	Constructing pie charts	AC9M6P01			