Stages 6-7 Multiplication and			Division Student Planner	
Stage	IALT	Personalised Activity	Computer Mathletics	Maintenance Group Box
6	1. Solve x and ÷ problems using doubles and halving.	NZCM- Using times two facts pages 118-121.  Dividing by 2, 4 and 8 pages 136-137.  NNN Stage 6 Part B: Doubling and halving as a x strategy p.31 Using doubles to work out x and / facts p.34  NNN Stage 6 Part C: Doubling to work out 2x facts p.20-21  ENP and ANP Multiplication: Double, double and x by 4 p.18 Multiply by 4 and then double to x by 8 p.21  FIO BF3 Factor Puzzles p.11 BF3 Stars and Students p.12 BF3 Digital Delights p.13 BF 3 Multiplie Mirrors p.21 N7/8 Link Table Tricks p.2 N7/8 Link Factor Fun p.5	Sumdog Level 7 -Doubling multiples of 10 and 100 -Halving Multiples of 10 and 100  Sumdog Level 6 -Rounding 2 digit or 3 digit numbers to theDividing 2 digit or three digit numbers by	Arrow Cards  Turtle  NNN Stage 6 Part B: Double and half dominoes p.52 Double it and halve it p.53
	2. Solve × and ÷ problems by adding and subtractin g.	NZCM- Solving "How many sets of? Division problems using addition and multiplication pages 122-127.  NNN Stage 6 Part C: Sharing division problems p.15-16 Using x and / problems to determine the number of sets p.22-23  ENP and ANP Multiplication: Adding or taking away one group p.26	Year 6 Operations with Number -Are you ready? -Adding Colossal Columns -Subtracting Colossal Columns  Year 6 Operations with Number (something easier) -Column addition -Column Subtraction	Arrow Cards  NNN Stage 6 Part B: I have, who has p.46  NNN Stage 6 Part C: Monster snap p.36 Easy peasy p.33

	NNN Stage 6 Part B:		
	Using repeated addition and		
	x facts as a division strategy		
	p.15-16		
	NZCM-	Year 6 Operations with	
	Dividing using multiplying	Number (something easier)	Multiplication Grid
	pages 128-135.	-Multiplication Facts	Game
		-Remainders by Tables	
	NNN Stage 6 Part A:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	Changing number order as a	Year 6 Operations with	
	x strategy p.31-34	Number Contracted Multiplication	
	NNN Stage 6 Part P:	-Contracted Multiplication -Short Division	
	NNN Stage 6 Part B: Using x to solve some	-Short Division -Problems: Times and	
	division problems p.17	Divide	
	Using reversibility as a	Divide	
	division strategy p.29	Year 6 Operations with	
	arriotori dilatogy p.20	Number (something harder)	
	*NZCM-	-Long Multiplication	
	Multiplying by changing the	-Long Division	
	order pages 116-117.		
	1		
3. Solve x	<b>ENP and ANP Division:</b>		
	Reversibility (1) p.26		
and ÷	Reversibility (2) p.27		
problems			
using	FIO		
reversing.	N2-3 Wheel and Deal p.15		
	N2-3 Stepping Out p.16		
	BF2-3 Heading for Home		
	p.11 N7/8 Link Container Contents		
	p.13		
	p. 13		
	N2-3 High Flyers p.14		
	BF 2-3 Times Up p.8		
	NS&AT2-3.1 Keeping Score		
	p.6-7.		
	ľ		
	ENP and ANP		
	Multiplication:		
	Turn abouts p.27		
	Extending facts-know 1 know		
	4 p.28		
	Changing the order to x more		
	easily p.29		
	NNN Otal C D 1 A	VCD "	Made a constant
4. Solve x	NNN Stage 6 Part A:	Year 6 Rounding and Place	Multiplication Grid
and ÷	Targeting easy numbers as a	Value (something easier)	Game
problems	multiplication strategy p.35-	Nearest 10? Nearest 100?	NININI Store & Dort A.
· ·	41	INEGIEST 100?	NNN Stage 6 Part A:
using	Using a number line as a	Expanding Numbers	Beans game p.50

# rounding and compensation.

division strategy p.47

### NNN Stage 6 Part B:

Using compensation p.5-14
Using compensation from tidy
numbers as a division
strategy p.42

### **ENP and ANP Division:**

Compensating from tidy numbers p.34

### NNN Stage 6 Part C:

x by taking some off and putting some on p.8-14

### NZCM-

Using times 5 pages 104-107

### NNN Stage 6 Part A:

Using 5x tables to solve other problems p.21-23

### NZCM-.

Multiplying by taking some off or putting some on pages 112-115

### **ENP and ANP Division:**

½ and ½ again to divide by 9 p.25

Division from x (1) p.31` Division from x (2) p.32 Division facts (1) p.35 Division facts (2) p.36

### FIO

N7/8.1 Fives and Tens p.4-5.

### ENP and ANP

### Multiplication:

Strategies to x by 5 p.30 Strategies for x by 6 p.19 Strategies for x by 7 p.20

#### **FIO**

Link 2 Planting with the Whanau p.6

### **ENP and ANP**

### Multiplication:

Adding and subtracting to x by 9 p.22

Making numbers count Making big numbers count

## Year 6 Rounding and Place Value

Are you ready? Expanded Notation Nearest Whole Number Place Value to Thousands Nearest 1000? TEST

### Year 6 Rounding and Place Value (Something harder)

-Rounding Numbers

## Year 5 Multiplication and Division (Something easier)

- -Groups of Ten
- -Groups of Four
- -Groups of Seven
- -Groups for Nine
- -Dividing Tens
- -Remainders by Arrays

### Year 5 More Division

- -Are you ready?
- -Dividing sixes
- -Dividing sevens
- -Dividing eights
- -Dividing Nines
- -Division Facts
- -TEST

NNN Stage 6 Part C: Multiplication race p.38 Links x and / p.47

		TAID I AND DOLL		
mu by h t	5. Solve x and ÷ problems using ultiplication y tens and nundreds, housands and other numbers.	*ENP and ANP Division: Division problems no remainders p.28 Division problems with remainders p.33 Remainders (1) p.29 Remainders (2) p.30.  NZCM- Multiplying Tens pages 108- 111.  Nesting Numbers pages 100- 103  NNN Stage 6 Part A: Multiplying tens, hundreds and thousands p.24-30 Managing large numbers as a multiplication strategy p.42- 46  NNN Stage 6 Part C: Working with place value in whole numbers (part 1) p.5-7 Working with place value in whole numbers (part 2) p.17- 18  FIO N3.1 Standing Room Only p.4 N3.1 Tens Time p.8 NS 7/8 Link it Pays to Win p.18  ENP and ANP Multiplication: Multiplying by 10s p.24 Multiplying by 10, 100 and 1000 p.25  NNN Stage 6 Part B: Using place value as a x	Year 6 Decimal Power -Multiply Decimals: 10, 100, 1000  Year 6 Decimal Power (something easier) -Multiplying by 10, 100, 1000 -Nearest whole number  Year 6 Decimal Power (something harder) -Divide decimals: 10, 100, 1000 -Decimal by whole number	Multiplication Grid Game Target  NNN Stage 6 Part A: Place Value game p.54
		NZCM-	Year 6 Operations with	Multiplication Grid
E1	. Use more	Multiplying and Dividing by	Number	Game
				Jaille
	than one	choosing a strategy	-Contracted Multiplication	
	strategy	pages 138-141.	-Short Division	
	nen solving	Calcing problems with	-Problems: Times and	
	x and ÷	Solving problems with	Divide	
		addition, subtraction,	Vaan (	
P	problems.	multiplication and division	Year 6 Operations with	
		pages 142-149.	Number (something harder)	

	_	-Long Multiplication	
	NNN Stage 6 Part C:	-Long Division	
	Combing x / + - strategies p.26		
	*Recording answers with a		
	variety of equations p.24-25		
	FIO		
	BF2.1 Dazzler Digs On p.19		
	BF2.1 Pocket Money p.15		
	BF2-3 Thirty One or More p.4 NS&AT7/8.1 Choice		
	Calculations		
	NS&AT7/8.1 Splitting		
	Numbers p.2 NS&AT7/8.1 Hit the Target		
	p.7 NS&AT7/8.1 Pathways		
	p.8		
	NZCM- Multiplying and Dividing by	Year 6 Operations with	Multiplication Grid Game
	choosing a strategy pages	Number -Contracted Multiplication	Gaine
	138-141.	-Short Division	
	*NZCM-	-Problems: Times and	
	Solving problems with	Divide	
	addition, subtraction,	Year 6 Operations with	
	multiplication and division	Number (something harder)	
E2. Choose	pages 142-149.	-Long Multiplication -Long Division	
the most	NNN Stage 6 Part C:	20119 211101011	
efficient	Combing x / + - strategies		
strategy	p.26 *Recording answers with a		
when solving	variety of equations p.24-25		
× and ÷	FIO		
problems.	FIO BF2.1 Dazzler Digs On p.19		
	BF2.1 Pocket Money p.15		
	BF2-3 Thirty One or More p.4		
	NS&AT7/8.1 Choice Calculations		
	NS&AT7/8.1 Splitting		
	Numbers p.2		
	NS&AT7/8.1 Hit the Target p.7 NS&AT7/8.1 Pathways		
	p.8		
1. Solve x	NZCM S7 AM Bk 1-	Year 7 Number Rules	The Card Game
and ÷	Multiplying using rounding	(something easier) -Place Value to Thousands	Multiplication Crid
problems	and compensating pages 44-47.	-Multiplication facts	Multiplication Grid Game
•		-Nearest Whole Number	
using			
using compensation	ENP and ANP	Voor 7 Number Dules	
compensation from tidy	Multiplication:	Year 7 Number Rules -Rounding numbers	
compensation		Year 7 Number Rules -Rounding numbers -Place value to Millions	

	Compensating with tidy	-Highest Common Factor	
	numbers (2) p.34	-Rounding Decimals	
	NZCM S7 AM Bk 1- Dividing using two different strategies pages 48-51.	Year 7 Operations with Number Estimation: Multiply and Divide	
	NNN Stages 7 & 8 Part B: Using tidy numbers with x and division problems p.21-22	Long Multiplication	
	Number Property Sheets Book 6: Multiplication Smorgasbord p.47-48 Multiplication Smorgasbord p.50		
	FIO N3.2 Multiple Methods p.10- 11		
	N3-4.1 Hard Times p.15 N3-4.1 Multiplication Roundabouts p.16 NS&AT 3.1 What's Best? p.6- 7		
	N3-4.1 Division Delights p.18		
	NZCM S7 AM Bk 1- Multiplying using place value pages 40-43.	Year 7 Operations with Number (something easier) -Contracted multiplication	Thousands Book Game- Secret Number
	ENP and ANP Multiplication:	Year 7 Operations with Number (something harder)	Multiplication Grid Game
	Using place value (1) p.30 Using place value (2) p.31	Divide Decimals: 10, 100, 1000	Target
	NNN Stages 7 & 8 Part A:		Number Fans AM/AP
2. Solve x	Identifying place value p.13-		Tens Frames
and ÷ problems using place	Making groupings of 10,100 and 1000 p.19-20		Arrow Cards
value.	NNN Stages 7 & 8 Part B: Using place value with x and division problems p.17-20		
	FIO N3 High Powered Thinking		
	p.29 N3.2 Singing Up a Storm p.7 N3.2 Booked! p.8-9 N3.2 That Old? p.12-13		
	N3.2 Sweet Thoughts p.15		

	N3.3 What a View! p.12 N3-4.1 Lookalike p.17 N3-4.3 Dog's Dinner p.14 BF3-4 Trying Times p.2 BF3-4 Eleventh Heaven p.3 NS&AT 4.1 The Greenhouse Effect p.9		
3. Solve × and ÷ problems using reversibility.	NZCM S7 AM Bk 1- Exploring Multiplication and Division pages 68-70  Page 71  Pages 72-73  Page 73  NNN Stages 7 & 8 Part C: Solving division problems by reversals p.29	Year 7 Fraction Rules (something harder) -Highest common factor -Lowest common multiple	Multiplication Grid Game
4. Solve x and ÷ problems using proportional adjustment: Doubling and Halving, Trebling and Thirding.	NZCM S7 AM Bk 1- Multiplying using proportional adjustment pages 52-55  Number Property Sheets book 5 and 6: Cut and Paste p.49-53 Cut and Paste p.54-55  Number Property Sheets x&/: Cut and Paste  NZCM S7 AM Bk 1- Dividing using proportional adjustment pages 56-59.  NZCM S7 AM Bk 1- Dividing by changing both numbers pages 60-63.  *NZCM S7 AM Bk 1- Multiplying and dividing using proportional adjustment pages 64-65  NZCM S7 AM Bk 1- Multiplying by 25 pages 66-67.  *FIO NS&AT3.2 Horsing Around p.1		The Card Game

	FIO NS 7/8.1 Double and Halve p.11 NS&AT2-3.1 Clean Cars p.18-19 NS&AT2-3.2 Fair Mix p.11		
	FIO NS 7/8 Link Division Dilemmas p.24		
	See Problem Progressions  AA-AM Multiplication and  Division- questions for follow up (there are 3 lots of these under similar strategies)		
	ENP and ANP Multiplication: Proportional Adjustment p.35		
	NNN Stages 7 & 8 Part B: Using doubling and halving with x problems p.9-14 Using trebling and thirding with x problems p.15-16		
	NZCM S7 AM Bk 1- Dividing with remainders pages 74-77.  Number Property Sheets x&/: Remainders Remainder	Year 7 Decimal Power -Multiply Decimals: 10, 100, 1000 -Divide Decimals: 10, 100, 1000 -Decimal by Whole Number TEST	
5. Solve x and ÷ problems by expressing remainders	* NZCM S7 AM Bk 1- Remainders on the calculator pages 114-115.  NNN Stages 7 & 8 Part B:	Year 7 Decimal Power (Something easier) Dividing by 10, 100, 1000 Multiplying by 10, 100, 1000 Nearest Whole Number	
as fractions, decimals or whole numbers.	Expressing remainder from division problems in different ways p.31	Year 7 Decimal Power (Something harder) Decimal by decimal	
	BF3 It remains to be seen p.22 N7/8 4.3 Digit Challenge p.18 N7/8 4.5 Revising Remainders p.1 N7/8 4.5 Reminder Bingo p.2 NS&AT3.1 Just Right! P.8-9 NS&AT3.2 Triple Trouble p.1		

		N7/8.3 Team Leaders p.10		
	6. Solve x and ÷ problems using standard written forms.	NZCM S7 AM Bk 1-  Multiplying using place value and written forms pages 106-109.  NZCM S7 AM Bk 1-  Dividing using place value and written forms pages 110-113.  ENP and ANP  Multiplication:  Extended Multiplication p.40  Written Multiplication (1) p.41  Written Multiplication (2) p.42  Written Multiplication (3) p.43  Written Multiplication (4) p.44  ENP and ANP Division:  Written division (1) (2) (3) (4) (5) (6) (7) pages 39-45  See Problem Progressions  AA-AM Multiplication and  Division-for follow up questions.  FIO  N3-4.3 Number Patterns p.8-9  N3-4.3 How Many? P.12-13  N 7/8.3 Orchard Antics p.23  N7/8.5 Plastic Fantastic p.17  NS7/8 Link- Keep your Shirt on p.23  NS7/8.2 No Space to Spare p.18  NS&AT 3-4.1 Tile the Town-Tiny! P.20-21  NNN Stages 7 & 8 Part A:  Moving between compact and expanded forms p.17-18  NZCM S7 AM Bk 1-  Multiplying by choosing a	Year 8 Operations with Number (something easier) -Multiplication Facts -Division Facts -Short Division  Year 8 Operations with Number -Long Division  Sumdog Level 8 -Multiplying 2 digiti numbers by 1 digit numbers -Dividing 2 digit numbers by 1 digit numbers with remainders	Multiplication Grid Game Algorithm  Create and answer multiplication and division questions using
E		NZCM S7 AM Bk 1-		
w	strategy when solving	Number Property Sheets		as many strategies as possible.
•	× and ÷ roblems and se the most	Multiplication Smorgasboard p.1-2		
us	efficient	Multiplication Smorgasboard- Algebra p.3-6		

strategy.	Cut and Paste p.7-8	
	NZCM S7 AM Bk 1- Dividing	
	by choosing a strategy pages	
	86-95	
	* NZCM S7 AM Bk 1- Order	
	of Operations pages 122-125	
	or operations pages :== :=s	
	* NZCM S7 AM Bk 1- Solving	
	problems using all four	
	operations pages 126-135.	
	oporationo pagos 120 100.	
	FIO	
	BF Making Numbers p.24	
	N3.1 Dead Calculators p.19	
	N3.1 Speedy Types p.21	
	N3.1 Human Pyramids p.23	
	N3.3 Wheels Galore p.19	
	•	
	N3-4.1 Think Tank p.20	
	N 3-4.2 Oceans Apart p.4	
	N3-4.2 Food for all p.5	
	N3-4.3 Number Patterns p.8	
	N3.3 Easy Nines p.14-15	
	N7/8.5 Order of Operations	
	p.6 N7/8.5 Operations	
	Checker p.7	