# Mathletics Primary National Curriculum Alignment for Wales







#### **Mathletics and the Welsh Curriculum**

This alignment document lists all Mathletics curriculum activities associated with each Wales course, and demonstrates how these fit within the National Curriculum Programme of Study for Wales.

As new activities are developed, this document will be updated. You can download the latest version from the training and support portal:

http://www.3plearning.com/uk/mathleticsalignment/

Key: Normal text: LNF statement Extended skill ▲ Programme of study skill ⊹

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The Programme of Study for Wales states:

Children should be given opportunities to develop their skills, knowledge and understanding through:

- a developmentally appropriate curriculum where the seven (six in Welsh-medium settings/schools) Areas of Learning complement each other and work together
- · continuous and enhanced provision and focused activities in the indoor and outdoor learning environments
- · different types of play and a range of planned activities, including those that are child-initiated
- experiences that allow them to adopt a variety of roles, including leadership within a small group, paired learning or working within a team
- different resources, including ICT
- active learning opportunities that build on prior experiences and support them to become independent thinkers and learners
- activities that allow them to use their senses, be creative and imaginative
- tasks and challenges that encourage problem solving and discussion.

Expectation	Topic	Activity		
Developing Numberical Reasoning: Ident	Developing Numberical Reasoning: Identifying processes and connections			
OB1- two refers we otherwestical abilia to relate		Count to 5		
OR1a transfer mathematical skills to play and classroom activities	Numbers to 10	How many dots?		
dia classicotti activilles		Dot Display		
OP1b identify stone to complete the took		Balance Numbers to 10		
OR1b identify steps to complete the task or reach a solution	Add and Subtract	Model Addition		
or reach a solution		Model Subtraction		
OP1s select apprepriate mother stics and	Add and Subtract	Balance Numbers to 10		
OR1c select appropriate mathematics and techniques to use		Model Addition		
recrimiques to use		Model Subtraction		
	Add and Subtract	Adding to 5		
		Subtracting from 5		
		Balance Numbers to 10		
OR1d select and use relevant number		Adding to make 5 and 10		
facts and mental strategies		Adding to Ten		
		Subtracting from 10		
		Model Addition		
		Model Subtraction		
OR1e select appropriate equipment and				
resources				



Expectation	Topic	Activity	
Developing Numberical Reasoning: Ident	ifying processes and connections		
OR1f use knowledge and practical		Which Holds More?	
	Measurement	How Full?	
experience to inform estimations		How Many Dots	
Developing Numberical Reasoning: Repr	esent and communicate		
OR2a use everyday and mathematical language to talk about their own ideas and choices			
OP2h proceet work erally pictorially and		Same and Different	
OR2b present work orally, pictorially and in written form, and use a variety of ways	Data	Who has the Good?	
to represent collected data	Daid	Making Graphs	
To represent collected data		Sort It	
OR2c devise and refine informal, personal		Model Addition	
methods of recording, moving to using	Add and Subtract	Model Subtraction	
words and symbols in number sentences	Add dild Sobilder	Adding to Ten	
·		Subtracting from Ten	
Developing Numberical Reasoning: Revie	ew		
	Add and Subtract	Model Addition	
OR3a use checking strategies to decide if		Model Subtraction	
answers are reasonable		Adding to Ten	
		Subtracting from Ten	
OR3b interpret answers within the context of the problem and consider whether answers are sensible	Add and Subtract	Adding to 10 Word Problems	
OR3c interpret information presented in		Same and Different	
charts and diagrams and draw	Data	Who has the Good?	
appropriate conclusions		Making Graphs	
		Sort It	
Using Number Skills: Use number facts and relationships			
ON1a recite a range of number rhymes and songs �			
	Numbers to 10	Count to 5	
		Dot Display	
ON1b count reliably up to 10 objects		How Many Dots?	
		How Many?	
		Matching Numbers to 10	



Expectation	Topic	Activity
Using Number Skills: Use number facts	· · · · · · · · · · · · · · · · · · ·	
ON1c recite numbers up to 20, forwards	Numbers (2)	Matching Numbers to 20
and backwards, and from different		Counting up to 20
starting points 🌣		Counting Back Within 20
		Count to 5
0811-1 1 1		Dot Display
ON1d read and write numbers to at least	Numbers (1)	How Many Dots?
		How Many?
		Matching Numbers to 10
		More or Less?
ON1e compare and order numbers to at	Numbers to (1)	More, Less or the same to 10
least 10		Order Numbers to 10
ON1f understand that zero means 'none'	Numbers to 10	Concept of zero
ONIT	Add and Culpture at	Adding to 5
ON1g use number facts up to 5 🏻 🌣	Add and Subtract	Subtracting from 5
ON1h count in 2s to 10 and in 10s to 100	Numbers (2)	Counting by Tens
ON1i use ordinal numbers to 10 in daily activities and play	Numbers to 10	Ordinal Numbers
ON1j begin to read number words	Numbers to 10	Matching Numbers to 10
Using Number Skills: Calculate using me	ental and written methods	
ON3a mentally recall 'one more' of a number within 10 ❖	Numbers to 10	More, Less or the same to 10
ON3b mentally recall 'one less' of a number within 10 І	Numbers to 10	More, Less or the same to 10
ON3c combine two groups of objects to	Add and Cubturant	Adding to make 5 and 10
find 'how many altogether?'	Add and Subtract	Model Addition
ON3d take away objects to find 'how many are left?'	Add and Subtract	Model Subtraction
ON3e solve simple problems in a practical situation that involve simple addition and subtraction up to 5	Add and Subtract	Adding to 10 word problems
ON3f talk about addition and subtraction instructions in play activities		



Expectation	Topic	Activity
Using Number Skills: Estimate and Chec	k	
ON4 make a sensible estimate of up to 10 objects that can be checked by counting	Numbers to 10	How many dots?
Using Number Skills: Manage money		
ON5 use 1p, 2p, 5p and 10p coins to pay for items	Measurement	Everyday Money (GBP)
Using Measuring Skills: Length, weight/n	nass, capacity	
OM1 use direct comparisons with: –		Compare Length
length, height and distance, e.g.		How full?
longer/shorter than – weight/mass, e.g. heavier/lighter than – capacity, e.g. holds	Measurement	Which Holds More?
more/less than		Balancing Act
Using Measuring Skills:Time		
OM2a use the concept of time in terms of their daily activities		
OM2b sing/chant the days of the week, months and seasons of the year in	Measurement	Days of the Week
meaningful contexts, e.g. when changing the class calendar �		Months of the Year
OM2c demonstrate a developing sense of how long tasks and everyday events take		
Using Measuring Skills:Temperature		
OM3 use direct comparisons when describing temperature, e.g. hot/cold	Data	Hot or Cold?
Using Geometry Skills: Shape		
OG1a recognise and name common 2D shapes (circle, square, triangle and		Collect the Shapes
rectangle) and some 3D shapes (cube,	Shape and Space	Collect Simple Shapes
cuboid and sphere) within play activities and the environment .		Count Sides and Corners
OG1b use 2D and 3D shapes to make models and pictures �		
Using Geometry Skills: Shape		
OG3 complete a simple symmetrical picture through a variety of media	Shapes and Space	Symmetry



Expectation	Торіс	Activity
Using Data Skills: Collect and record dat	a, Present and analyse data, Interp	ret data
OD1a sort and classify objects using one	Data	Sort It
criterion	Dala	Same and Different
OD1b record collections using marks, numbers or pictures	Data	Making Graphs
·		Complete the Pattern
OD3 recognise and repeat three object/colour/clapped patterns and	Patterns	Simple Patterns
		Colour Patterns
sequences.		Missing it!



#### Year '

Expectation	Topic	Activity
Developing Numberical Reasoning: Ident	ifying processes and connections	
1D1e transfer menth constituted abille to relate		Counting forwards
1R1a transfer mathematical skills to play	Numbers to 20	Counting Backwards
and classroom activities		Matching Numbers to 20
		Model Addition
1R1b identify steps to complete the task or	Add and Subtract	Model Subtraction
reach a solution	Add and Sobiraci	Add and Subtract Problems
		Adding to 10 word problems
	Add and Subtract	Add and Subtract Problems
1R1c select appropriate mathematics and	Add dild Sobilder	Adding to 10 word problems
techniques to use	Multiply and Divide	Groups
	Wompiy and Divide	Share the Treasure
1R1d select and use relevant number facts		Balance Numbers to 10
and mental strategies	Add and Subtract	Adding to make 5 and 10
una memai siralegies		Addition Facts
1R1e select appropriate equipment and resources		
1R1f use knowledge and practical		
experience to inform estimations		
Developing Numberical Reasoning: Repr	esent and Communicate	
1R2a use everyday and mathematical		
language to talk about their own ideas		
and choices		
1001		Same and Different
1R2b present work orally, pictorially and in	Data	Who has the Good?
written form, and use a variety of ways to		Making Graphs
represent collected data		Sorting Data
		Model Addition
1R2c devise and refine informal, personal		Model Subtraction
methods of recording, moving to using	Add and Subtract	Adding to Ten
words and symbols in number sentences		Subtracting from Ten
Developing Numberical Reasoning: Review	l	Sobilideling north refr
Developing Normberical Neusoning: Revie		Model Addition
OR3a use checking strategies to decide if		Model Subtraction
answers are reasonable	Add and Subtract	
		Adding to Ten
ODSI : I see		Subtracting from Ten
OR3b interpret answers within the context	Add and Culturat	Adding to 10 Word Problems
of the problem and consider whether answers are sensible	Add and Subtract	Add and Subtract Problems



Expectation	Topic	Activity
Developing Numberical Reasoning: Revie		
OR3c interpret information presented in		Same and Different
charts and diagrams and draw	Data	Who has the Good?
_	Dala	Making Graphs
appropriate conclusions		Sorting Data
Using Number Skills: Use number facts of	and relationships	
		Groups of Two
1N1a count sets of objects by grouping in	Multiply and Divide	Groups of Ten
2s, 5s or 10s	Womply and Divide	Groups of Five
		Groups
1N1b recite numbers beyond 100, forwards	Numbers (1)	Counting Forwards
and backwards and from different starting	Nombers (I)	Conting Backwards
points �	Numbers (2)	Number Lines
1N1c read and write numbers to at least		Counting Forwards
	Numbers (1)	Conting Backwards
100 🛦		Number Lines
	Numbers (1)	Order Numbers to 20
		Before, After and Between to 20
		More, Less of the Same to 10
		More, Less or the Same to 20
1N1d compare and order 2-digit numbers		Which is Bigger?
		Which is Smaller?
	Numbers (2)	Before, After & Between to 100
		Arranging Numbers
		Compare Numbers to 50
	Numbers (2)	Making Big Numbers Count
1N1e demonstrate an understanding of		Place Value 1
place value up to at least 100 💠	Normbers (2)	Making Teen Numbers
		Make Numbers Count
1N1f use mental recall of number facts to		
10 to derive other facts, i.e.:	Detterne and Deletterable	Doubles and Halves to 10
– doubling and halving, e.g. derive	Patterns and Relationships	
40 + 40 from knowing 4 + 4		Doubles and Halves to 20
1N1g recall doubles up to 20 🎄	Patterns and Relationships	Doubles and Halves to 20
1N1h recognise and understand odd and		Odd or Even
even numbers up to 100 💠	Patterns and Relationships	Odd and Even Numbers 1



Expectation	Topic	Activity
Using Number Skills: Use number facts o		
		Counting on a hundred Grid
		Couting by Twos
		Coutnting by Fives
1N1i count in 2s, 5s and 10s from any	Numbers (3)	Counting by Tens
given number 🂠	Numbers (3)	Count by Twos
		Count by Fives
		Count by Tens
		Count by 2s, 5s and 10s
Using Number Skills: Fractions, Decimals	, Percentages and Ratio	
		Halves
1N2a find halves in practical situations	Fractions	Is it Half?
		Halves and Quarters
1N2b recall halves up to 10 🏻 🏶	Patterns and Relationships	Doubles and Halves to 10
Using Number Skills: Calculate using me	ntal and written methods	
1N3a mentally recall 'one more' or a	Patterns and Relationships	1 More, 2 Less
number within 20 �	ranems and Relationships	1 More, 10 Less
nomber within 20 💠	Numbers (1)	Counting Forwards
1N3b mentally recall 'one less' of a number within 20 �	Numbers (1)	Counting Backwards
1N3c use 'counting on' strategies to add	Add and Subtract	Adding to Ten
two collections, starting with the largesr		Model Addition
number, e.g. 8 + 5		Addition Facts
1N3d add and subtract numbers involving up to 10 objects	Add and Subtract	Model Addition
op to to objects		Addition Facts
		Adding to Ten
1N3e use a range of strategies to		Model Addition
mentally solve problems within 10	Add and Subtract	Addition Facts
mentally solve problems within 10 😽		Addictive Addition
		Adding to 10 Word Problems
1N3f solve one-step problems that involve addition and subtraction, including missing number problems, e.g. 7 + " = 9, using concrete objects and pictorial representations	Add and Subtract	Adding to 10 Word Problems



Expectation	Topic	Activity
Using Number Skills: Calculate using me	ental and written methods (contin	ued)
1N3g use known facts to solve simple		Doubles and Halves to 10
problems within 10, e.g. doubling and	Dattaca and Dalatic cabica	Doubles and Halves to 20
halving, number bonds І	Patterns and Relationships	Adding to Make 5 and 10
naiving, number bonds 😽		Balance Numbers to 10
1N3h use known number facts when adding three single digit numbers and	Patterns and Relationships	Adding in Any Order
realise addition can be done in any order	Tarrettis and Relationships	Add Three 1-Digit Numbers
		Model Addition
		Model Subtraction
1N3i understand and use the		Balance Numbers to 10
mathematical symbols for addition,	Add and Subtract	Adding to Make 5 and 10
subtraction and equals *	Add drid Subirder	Addictive Addition
subtraction and equals *		Addition Facts
		Add Three 1-Digit Numbers
		Subtraction facts to 18
		Model Addition
		Model Subtraction
1N3j understand and use the different	Add and Subtract	Balance Numbers to 10
mathematical terms for addition and subtraction, e.g. add, combine, find the		Adding to Make 5 and 10
		Addictive Addition
difference �		Addition Facts
		Add Three 1-Digit Numbers
		Subtraction facts to 18
1N4a make a sensible estimate of a number of objects that can be checked by counting		
11140 make a sensible estimate of		C
measurement in length, height, weight	M	Comparing Length
and capacity that can be checked using	Measurement	Everyday Length
ann-standard mansures 🎄		Everyday Mass
1N5a use different combinations of money	Measurement	Everyday Money (GBP)
to pay for items up to 20p		Money (GBP)
1N5b find totals and give change from	Measurement	Everyday Money (GBP)
10p		Money (GBP)
Using Measuring Skills: Length, weight/	mass, capacity	
1M1 use non-standard units to measure:		Everyday Length
– length, height and distance	Measurement	Everyday Mass
– weight/mass	Medsorethern	• •
- capacity		Measuring Length with Blocks



Expectation	Topic	Activity	
Using Measuring Skills: Time			
1M2a use the concept of time in terms of their daily and weekly activities and the seasons of the year			
1M2b understand and order the days of		Days of the Week	
the week, the months and seasons of the year in meaningful contexts .	Measurement	Months of the Year	
1M2c use standard units of time to read 'o'clock' using both analogue and 12-hour digital clocks	Measurement	Tell Time to the Hour (UK)	
Using Measuring Skills: Temperature			
1M3 use descriptive words for a range of temperatures, e.g. cooler/warmer			
Using Measuring Skills: Area and volume	, Angle and position		
1M4a make whole turns and half turns			
1M4b describe position, direction and		Left or Right?	
movement *	Shape and Space	Where is it?	
Using Geometry Skills: Shape		Flip, Slide, Turn	
1G1a recognise and name common 2D		Carlant Cimania Chanasa	
shapes (square, triangle, rectangle, circle	Shape and Space	Coolect Simple Shapes	
and semi-circle) and 3D shapes (cube,		Collect the Shapes 1	
cuboid, cone and sphere) in order to		Match the Solid 1	
begin to compare and sort 💠		Count Sides and Corners	
1G1b use 2D and 3D shapes and describe how they fit together �			
1G3 recognise and complete a symmetrical picture or simple shape	Shape and Space	Symmetry	
Using Data Skills: Collectand record, Present and analyse data, Interpret data			
1D1a sort and classify objects using more than one criterion	Data	Sorting Data	
1D1b collect information by voting or		Pictographs	
sorting and represent it in pictures,	Data	Making Graphs	
objects or drawings		Bar Chart	
,		Who has the Goods?	
1D1c make lists and tables based on data collected			



Expectation	Topic	Activity
Using Data Skills: Pattern		
	Patterns and Relaptionships	Simple Patterns
		Complete the Pattern
1D3 demonstrate an understanding of		Missing It!
repeating patterns, including shape and		Pattern Error
number, by describing, reproducing and	Numbers (3)	Count by Twos
extending. �		Count by Fives
		Count by Tens
		Count by 2s, 5s and 10s



Expectation	Topic	Activity
Developing Numberical Reasoning: Iden	· · · · · · · · · · · · · · · · · · ·	
2R1a transfer mathematical skills to play		Order Numbers to 20
	Numbers (1)	Compare Numbers to 20
and classroom activities	, ,	1st to 31st
201h ideatify stone to consulate the tools		Balance Numbers to 20
2R1b identify steps to complete the task	Add and Subtract	All about Twenty
or reach a solution		Problems: Add and Subtract
2D1		Balance Numbers to 20
2R1c select appropriate mathematics and	Add and Subtract	All about Twenty
techniques to use		Problems: Add and Subtract
		All about Twenty
		Add Three 1-Digit Numbers
	Add and Subtract	Balance Numbers to 20
		Addictive Addition
		Simple Subtraction
2R1d select and use relevant number		Doubles and Halves to 20
facts and mental strategies		Counting by Fives
radio ana memaranategios	Patterns and Relationships	Counting by Tens
		Counting by 2s, 5s and 10s
		Odd or Even
		1 More, 10 Less
		10 More, 10 Less
2R1e select appropriate equipment and		10 1000, 10 2033
resources		
2R1f use knowledge and practical		
experience to inform estimations		
Developing Numberical Reasoning: Rep	resent and communicate	
2R2a use everyday and mathematical		
language to talk about their own ideas		
and choices		
3D31		Tallies
2R2b present work orally, pictorially and	5 .	Picture Graphs
in written form, and use a variety of ways to represent collected data	Data	Column Graphs
		Interpreting Tables
2020 device and refine información de la companio	Add and Subtract	Addictive Addition
2R2c devise and refine informal, personal methods of recording, moving to using words and symbols in number sentences		
		Simple Subtraction
		Balance Numbers to 20



Peveloping Numberical Reasoning: Review  2R3a use checking strategies to decide if answers are reasonable  Add and Subtract  Add and Subtract  Add and Subtract  Add and Subtract  Balance Numbers to 20  Problems: Add and Subtract  Add and Subtract  Problems: Add and Subtract  Add and Subtract  Add and Subtract  Add and Subtract  Problems: Add and Subtract  Add and Subtract  Add and Subtract  Problems: Add and Subtract  Add and Subtract  Add and Subtract  Problems: Add and Subtract  Add and Subtract  Add and Subtract  Problems: Add and Subtract  Interpreting Tables  Count and Interpreting Tables  Count by Twos  Counting Tables  Count by Twos  C	Expectation	Topic	Activity
2R3a use checking strategies to decide if answers are reasonable  2R3b interpret answers within the context of the problem and consider whether answers are sensible  2R3c interpret information presented in charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships  2N1a count sets of objects by grouping in 2s, 5s or 10s  2N1b recite numbers beyond 100, forwards and backwards and from different starting points ◆  2N1c read and write numbers to at least 100 ▲  Numbers (1)  Numbers (2)  Numbers (2)  Simple Subtraction Balance Numbers to 20 Problems: Add and Subtract  Problems: Add and Subtr	Developing Numberical Reasoning: Revie	ew	
answers are reasonable  2R3b interpret answers within the context of the problem and consider whether answers are sensible  2R3c interpret information presented in charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships  2N1a count sets of objects by grouping in 2s, 5s or 10s  Patterns and Relationships  Patterns and Relationships  Patterns and Relationships  Counting by Tive Counting by Ten Coun			Addictive Addition
answers are reasonable  2R3b interpret answers within the context of the problem and consider whether answers are sensible  2R3c interpret information presented in charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships  2N1a count sets of objects by grouping in 2s, 5s or 10s  2N1b recite numbers beyond 100, forwards and backwards and from different starting points ◆  2N1c read and write numbers to at least 100 ▲  2N1c read and write numbers to at least 100 ▲  2N1c read and order 2-digit numbers  2N1d compare and order 2-digit numbers  2N1d compare Numbers to 20  2N1d compare Numbers to 20  2N1d compare Numbers to 20  2N1d compare Numbers to 30  3Numbers (2)  3Numbers (3)  3Numbers (2)  3Numbers (3)  3Numbers (2)  3Numbers (2)  3Numbers (3)  3Numbers (4)  3Numbers (8)  3Numbers (9)  3Number	2R3a use checking strategies to decide if	Add and Subtract	Simple Subtraction
2R3b interpret answers within the context of the problem and consider whether answers are sensible  2R3c interpret information presented in charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships  Count by Two Counting by Two Counting by Fives Counting by Five Counting by F	answers are reasonable	Add and Subiraci	Balance Numbers to 20
of the problem and consider whether answers are sensible  2R3c interpret information presented in charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships  Count by Twos Counting by Two Counting by Two Count by Fives Count by Fives Count by Five Count by Ten Count by Ten Counting by Fen Count by Ten Counting by Fen Count by Ten Counting by Fen Count by Ten Count by			Problems: Add and Subtract
of the problem and consider whether answers are sensible  2R3c interpret information presented in charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships  Count by Twos Counting by Two Counting by Two Count by Fives Count by Fives Count by Five Count by Ten Count by Ten Counting by Fen Count by Ten Counting by Fen Count by Ten Counting by Fen Count by Ten Count by	2R3b interpret answers within the context		
answers are sensible  2R3c interpret information presented in charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships  2N1a count sets of objects by grouping in 2s, 5s or 10s  Patterns and Relationships  Patterns and Relationships  Count by Twos Counting by Two Count by Five Count by Ten Counting by Five Count by Ten Counting by Five Count by Ten Counting by Five Count by 2s, 5s, 10s  2N1b recite numbers beyond 100, forwards and backwards and from different starting points  2N1c read and write numbers to at least 100 ▲  Numbers (2)  Counting on a 100 grid Number Line Order Going Up Going Up Going Down  Order Numbers to 20 Before, After & Between to 20 Compare Numbers to 50 Number Line Compare Numbers to 100 Which is Bigger? Which is Smaller? Before, After & Between to 100 Arranging Numbers  2N1e demonstrate an understanding of Numbers (2)  Place Value 1	· ·	Add and Subtract	Problems: Add and Subtract
Charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships    Count by Two Counting by Two Count by Five Count by Ten Counting by Five Count by Ten	· ·		
Charts and diagrams and draw appropriate conclusions  Using Number Skills: Use number facts and relationships    Count by Two Counting by Two Count by Five Count by Ten Counting by Five Count by Ten	2R3c interpret information presented in		Interpreting Tables
appropriate conclusions  Using Number Skills: Use number facts and relationships  Count by Twos Counting by Two Count by Fives Counting by Five Count by En Counting by Fen Counting by Fen Counting by Fen Count by 2s, 5s, 10s   2N1b recite numbers beyond 100, forwards and backwards and from different starting points  2N1c read and write numbers to at least 100 ▲  Numbers (2)  Numbers (3)  Number Line Order Going Down Order Numbers to 20 Before, After & Between to 20 Compare Numbers to 50 Number Line Order The Number Line Order The Number Line Order The Number Line Compare Numbers to 100 Which is Bigger? Which is Smaller? Before, After & Between to 100 Arranging Numbers  2N1e demonstrate an understanding of Numbers (2)  Numbers (2)  Numbers (3)  Numbers (4)  Numbers (7)  Numbers (8)  Numbers (9)  Numbers (1)  Numbers (1)  Numbers (1)  Numbers (2)  Numbers (1)  Numbers (1)  Numbers (2)  Numbers (1)  Numbers (2)  Numbers (2)  Numbers (3)  Numbers (4)  Numbers (6)  Numbers (7)  Numbers (8)  Numbers (8)  Numbers (8)  Numbers (9)  Numbers (9)  Numbers (1)  Numbers (2)	The state of the s	Data	
Using Number Skills: Use number facts and relationships    Count by Two   Counting by Two   Count by Five   Counting by Five	_		
2N1a count sets of objects by grouping in 2s, 5s or 10s  Patterns and Relationships  Patterns and Relationships  Patterns and Relationships  Counting by Two Counting by Five Count by Ten Count by Ten Counting by Ten Counting by Ten Counting by Ten Count by Zs, 5s, 10s  2N1b recite numbers beyond 100, forwards and backwards and from different starting points \$  2N1c read and write numbers to at least 100 \$  Numbers (2)  Numbers (3)  Counting on a 100 grid Number Line Order Going Up Going Down Order Numbers to 20 Compare Numbers to 20 Compare Numbers to 20 Numbers (1)  Numbers (2)  Numbers (2)  Number Line Order The Number Line Orde		and relationships	
2N1a count sets of objects by grouping in 2s, 5s or 10s  Patterns and Relationships  Patterns and Relationships  Counting by Two Count by Fives Counting by Ten Counting on a 100 grid Number starting points \$  2N1c read and write numbers to at least 100 \$\ldot\$  Numbers (2)  Numbers (1)  Counting on a 100 grid Number Line Order Going Up Going Down Order Numbers to 20 Compare Numbers to 20 Before, After & Between to 20 Compare Numbers to 50 Numbers (1)  Numbers (2)  Numbers (2)  Numbers (3)  Numbers (3)  Numbers (4)  Numbers (7)  Numbers (9)  Numbers (9)  Numbers (9)  Numbers (9)  Numbers (9)  Numing by Two Counting by Five C			Count by Twos
2N1a count sets of objects by grouping in 2s, 5s or 10s  Patterns and Relationships  Counting by Five Count by Ten Counting on a 100 grid Number starting points  Numbers (2)  Number Line Order Going Up Going Down Order Numbers to 20 Compare Numbers to 20 Defore, After & Between to 20 Compare Numbers to 50 Number Line Order The Number to 50 Number Line Order The Number Line Order The Number Line Compare Numbers to 100 Which is Bigger? Which is Smaller? Before, After & Between to 100 Arranging Numbers Place Value 1			
2s, 5s or 10s  Patterns and Relationships  Counting by Five Count by Ten Count by 2s, 5s, 10s  2N1b recite numbers beyond 100, forwards and backwards and from different starting points *  2N1c read and write numbers to at least 100  Numbers (2)  Counting on a 100 grid Number Line Order Going Up Going Dwn Order Numbers to 20 Compare Numbers to 20 Before, After & Between to 20 Compare Numbers to 50 Numbers (1)  Numbers (2)  Numbers (2)  Numbers (3)  Numbers (3)  Patterns and Relationships Counting by Five Count by 2s, 5s, 10s  Counting on a 100 grid Number Line Order Going Up Going Dwn Order Numbers to 20 Compare Numbers to 20 Compare Numbers to 50 Numbers Line Compare Numbers to 100 Which is Bigger? Which is Smaller? Before, After & Between to 100 Arranging Numbers  2Nterns and Relationships Counting by Five Cou	2NI1- accordance of abicata by many in the		
Count by Ten Counting by Ten Count by 2s, 5s, 10s  2N1b recite numbers beyond 100, forwards and backwards and from different starting points *  2N1c read and write numbers to at least 100    Numbers (2)  Numbers (2)  Numbers (3)  Counting on a 100 grid Number Line Order Going Up Going Down Order Numbers to 20 Before, After & Between to 20 Compare Numbers to 50 Number Line Order The Number Line Compare Numbers to 100 Which is Bigger? Which is Smaller? Before, After & Between to 100 Arranging Numbers  2N1e demonstrate an understanding of Numbers (2)  Place Value 1	, , , ,	Patterns and Relationships	
Counting by Ten Count by 2s, 5s, 10s  2N1b recite numbers beyond 100, forwards and backwards and from different starting points ❖  2N1c read and write numbers to at least 100 ▲  Numbers (2)  Counting on a 100 grid Number Line Order Going Up Going Down  Order Numbers to 20 Compare Numbers to 20 Effort, After & Between to 20 Compare Numbers to 50 Numbers (1)  Numbers (2)  Numbers (2)  Numbers (3)  Numbers (3)  Numbers (4)  Numbers (5)  Place Value 1	2s, 5s or ius	i i	
Count by 2s, 5s, 10s  2N1b recite numbers beyond 100, forwards and backwards and from different starting points ◆  2N1c read and write numbers to at least 100 ▲  Numbers (2)  Numbers (2)  Counting on a 100 grid Number Line Order Going Up Going Down  Order Numbers to 20 Compare Numbers to 20 Before, After & Between to 20 Compare Numbers to 50 Numbers (1)  Numbers (2)  Numbers (2)  Numbers (3)  Numbers (3)  Numbers (4)  Numbers (5)  Numbers (8)  Numbers (9)			
forwards and backwards and from different starting points    2N1c read and write numbers to at least 100    Numbers (2)    Number Line Order    Going Up   Going Down    Order Numbers to 20    Compare Numbers to 20    Before, After & Between to 20    Compare Numbers to 50    Numbers (2)    Numbers (2)    Numbers (3)    Numbers (3)    Numbers (4)    Numbers (5)    Numbers (7)    Numbers (8)    Numbers (9)    Numbers (9)    Numbers (9)    Numbers (1)    Compare Numbers to 100    Which is Bigger?    Which is Smaller?    Before, After & Between to 100    Arranging Numbers    Place Value 1			
different starting points    2N1c read and write numbers to at least 100    Numbers (2)    Counting on a 100 grid   Number Line Order   Going Up   Going Down    Order Numbers to 20   Compare Numbers to 20   Before, After & Between to 20   Compare Numbers to 50   Numbers (2)    Numbers (2)    Numbers (2)    Numbers (3)    Ending the starting on a 100 grid   Number Line Order   Compare Numbers to 20   Compare Numbers to 20   Ending the starting on a 100 grid   Number Line Order   The Numbers to 20   Ending the starting on a 100 grid   Numbers to 20   Ending the starting on a 100 grid   Number Line Order   The Numbers to 20   Ending the starting on a 100 grid   Numbers to 20   Ending the starting on a 100 grid   Number Line Order   Ending the starting of Starting on a 100 grid   Numbers to 20   Ending the starting on a 100 grid   Numbers to 20   Ending the starting on a 100 grid   Number Line Order   Ending the starting of Starting on a 100 grid   Number Line Order   Ending the starting on a 100 grid   Numbers to 20   Ending the starting on a 100 grid   Number Line Order   Ending the starting of Starting on a 100 grid   Ending the starting of Starting on a 100 grid   Ending the starting of Starting on a 100 grid   Ending the starting of Starting or Starting on a 100 grid   Ending the starting of Starting or	2N1b recite numbers beyond 100,		
2N1c read and write numbers to at least 100   Numbers (2)    Number Line Order	forwards and backwards and from		
2N1c read and write numbers to at least 100 \( \bigstar{\text{Numbers}} \)  Numbers (2) \( \begin{array}{c} \text{Number Line Order} \\ \text{Going Up} \\ \text{Going Down} \\ \text{Order Numbers to 20} \\ \text{Compare Numbers to 20} \\ \text{Dompare Numbers to 20} \\ \text{Dompare Numbers to 50} \\ \text{Numbers (2)} \\ \text{2N1d compare and order 2-digit numbers} \\  2N1d compare and order 2-digit numbers  \[ \begin{array}{c} \text{Numbers (2)} \\ \text{Numbers to 100} \\ \text{Which is Bigger?} \\ \text{Which is Smaller?} \\ \text{Before, After & Between to 100} \\ \text{Arranging Numbers} \\ \text{2N1e demonstrate an understanding of} \\ \text{Numbers (2)} \\ Nu	different starting points 💠		
Numbers (2)    Coing Up			Counting on a 100 grid
Numbers (1)   Going Down	2N1c read and write numbers to at least	Numbers (2)	
Numbers (1)  Order Numbers to 20 Compare Numbers to 20 Before, After & Between to 20 Compare Numbers to 50 Numbers (2)  Numbers (2)  Number Line Order The Number Line Compare Numbers to 100 Which is Bigger? Numbers (3)  Which is Smaller? Before, After & Between to 100 Arranging Numbers  Numbers (2)  Numbers (2)  Numbers (2)	100 🔺		
Numbers (1)  Compare Numbers to 20 Before, After & Between to 20 Compare Numbers to 50 Numbers (2)  Numbers (2)  Number Line Order The Number Line Compare Numbers to 100 Which is Bigger? Which is Smaller? Before, After & Between to 100 Arranging Numbers  Numbers (2)  Numbers (2)  Numbers (2)			
Before, After & Between to 20 Compare Numbers to 50 Numbers (2)  Number Line Order The Number Line Compare Numbers to 100 Which is Bigger? Which is Smaller? Before, After & Between to 100 Arranging Numbers  Numbers (2)  Numbers (2)  Place Value 1			
2N1d compare and order 2-digit numbers  2N1d compare and order 2-digit numbers  Numbers (2)  Compare Numbers to 50  Number Line Order  The Number Line  Compare Numbers to 100  Which is Bigger?  Which is Smaller?  Before, After & Between to 100  Arranging Numbers  2N1e demonstrate an understanding of  Numbers (2)  Place Value 1		Numbers (1)	
Numbers (2)  Number Line Order The Number Line Compare Numbers to 100 Which is Bigger? Numbers (3)  Which is Smaller? Before, After & Between to 100 Arranging Numbers  Numbers (2)  Numbers (2)  Numbers (2)			
2N1d compare and order 2-digit numbers  The Number Line  Compare Numbers to 100  Which is Bigger?  Which is Smaller?  Before, After & Between to 100  Arranging Numbers  2N1e demonstrate an understanding of  Numbers (2)  Place Value 1			
Compare Numbers to 100 Which is Bigger? Numbers (3) Which is Smaller? Before, After & Between to 100 Arranging Numbers  2N1e demonstrate an understanding of Numbers (2) Place Value 1		Numbers (2)	Number Line Order
Numbers (3)  Numbers (3)  Which is Bigger?  Which is Smaller?  Before, After & Between to 100  Arranging Numbers  2N1e demonstrate an understanding of  Numbers (2)  Place Value 1	2N1d compare and order 2-digit numbers		The Number Line
Numbers (3)  Before, After & Between to 100  Arranging Numbers  2N1e demonstrate an understanding of  Numbers (2)  Place Value 1			Compare Numbers to 100
Before, After & Between to 100 Arranging Numbers  2N1e demonstrate an understanding of Numbers (2)  Place Value 1			Which is Bigger?
2N1e demonstrate an understanding of Numbers (2) Place Value 1		Numbers (3)	Which is Smaller?
2N1e demonstrate an understanding of Numbers (2)			Before, After & Between to 100
2N1e demonstrate an understanding of Numbers (2)			
Numbers (2)	2N1e demonstrate an understanding of	N 1 (2)	ŭ ŭ
	_	Numbers (∠)	Making Big Numbers



Expectation	Topic	Activity
Using Number Skills: Use number facts (	and relationships (Continued)	
2N1f use mental recall of number facts to		1 More, 10 Less
	D-44 (1)	10 More, 10 Less
10 to derive other facts, i.e.:	Patterns and Relationships (1)	Doubles and Halves to 20
- doubling and halving, e.g. derive		Odd or Even
40 + 40 from knowing 4 + 4		All About Twenty
- bonds of 10, e.g. derive 60 + 40 from	Add and Subtract	Balance Numbers to 20
knowing 6 + 4		Add 3 Numbers Using Number Bonds
2N1g recall doubles up to 20 💠	Patterns and Relationships (1)	Doubles and Halves to 20
2N1h recognise and understand odd and	Datteres and Dalationships (1)	Odd or Even
even numbers up to 100 💠	Patterns and Relationships (1)	Odd and Even Numbers 1
·		Counting by Twos
		Count by Twos
2017: 1 : 2 5 110 (		Counting by Fives
2N1i count on in 2s, 5s and 10s from any	Patterns and Relationships (2)	Count by Fives
given number 🌣	, , ,	Counting by Tens
		Count by Tens
		Count be 2s, 5s and 10s
		Groups of Two
2N1j recall and use 2, 5 and 10	Marie I Breed	Groups of Five
multiplication tables	Multiply and Divide	Groups of Ten
· .		Model Multiplication to 5 x 5
	Multiply and Divide	Groups of Two
		Groups of Five
2N1k begin to link multiplication with simple division, e.g. grouping and sharing		Groups of Ten
		Dividing by Two
in 2s, 5s and 10s ❖		Dividing by Five
in 2s, 5s and ios 💠		Dividing Tens
		Multiplcation Arrays
		Make Fair Shares
2N1I use and record ordinal numbers in practical situations	Numbers (1)	1st to 31st
2N1m read and write number words to 100 ❖		
Using Number Skills: Fractions, Decimals	s, Percentages and Ratio	
2N2a find halves and quarters in practical		
situations		
2N2b partition 2-digit numbers and know		Place Value 1
the value of each digit *	Numbers (2)	Make Big Numbers Count
Using Number Skills: Calculate using me	ontol and written methods	Make big Nortibers Coolii
2N3a mentally add 10 or 20 to a given	The and with the mous	
,	Patterns and Relationships (1)	10 More, 10 Less
number up to 100 💠		



Expectation	Topic	Activity
Using Number Skills: Calculate using me	ntal and written methods	
2N3b mentally subtract 10 or 20 from a given number up to 100	Patterns and Relationships (1)	10 More, 10 Less
	• • • •	1 More, 10 Less
given nomber op 10 100 💠	Add and Subtract	Subtract Tens
2N3c find small differences within 20 by using 'counting on' strategies	Add and Subtract	Simple Subtraction
2N3d use mental recall of number facts		Balance Numbers to 20
to 10 and place value to add or subtract	Add and Subtract	Balance Additions to 20
larger numbers, e.g. 24 + 4, 30 + 5, 34 + 10		Addictive Addition
2N3e find a small difference between two numbers by counting on, e.g. 44 − 28 = "	Add and Subtract	Simple Subtraction
2N3f solve one- and two-step problems that involve addition and subtraction, multiplication and simple division including missing number problems, e.g. 40 – " = 19	Add and Subtract	Missing Numbers
2N3g use partitioning strategies to double and halve 2-digit numbers		
		Groups of Two
2N3h understand that multiplication is		Groups of Five
repeated addition, e.g. 2 + 2 + 2 is the	Multiply and Divide	Groups of Ten
same as 'three twos' 🌣		Multiplication Arrays
		Frog Jump Multiplication
2N3i add/subtract 9 or 11 from given number by adding/subtracting 10 and adjusting �		
	Add and Subtract	Balance Additions to 20
2N3j understand and use mathematical		All About Twenty
symbols for addition, subtraction,		Missing numbers
multiplication, division and equals 💠	Multiply and Divide	Multiplication Arrays
		Frog Jump Multiplication



For a shakle o	T:-	A cathoda o
Expectation Using Number Skills: Calculate using me	Topic	Activity
Osing Number Skills: Calculate using me	ental and written methods (Continue	Add Three 1-Digit Numbers
		Add 3 Numbers Using Bonds
		All About Twenty
		Addictive Addition
	Add and Subtract	Balance Numbers to 20
		Balance Numbers to 20
		Simple Subtraction
2N3k understand and use the different		Problems: Add and Subtract
mathematical terms for addition,		Subtract Tens
subtraction, multiplication, division and		Missing Numbers
equals, e.g. find the total, share,		Groups of Two
goes into 🂠		Groups of Five
		Groups of Ten
		Dividing by Two
	Multiply and Divide	Dividing by Five
		Dividing Tens
		Multiplicatoin Arrays
		Model Multiplication to 5 x 5
		Make Fair Shares
		Frog Jump Multiplication
Using Number Skills: Estimate and chec	<	
	Add and Subtract	Balance Numbers to 20
2N4a use checking strategies: – repeat		Balance Numbers to 20
addition in a different order – use halving		All About Twenty
and doubling within 20		Addictive Addition
	Patterns and Relationships (1)	Double and Halves to 20
2N4b make a sensible estimate of		How Long is That?
measurement in length, height, weight and capacity that can be checked using	Measurement	How Heavy?
standard measures *		How Full?
Using Number Skills: Manage money		
2N5a use different combinations of	Measurement	Who has the Money? (GBP)
money to pay for items up to £1	Medsurement	Identify Everyday Money (GBP)
2N5b find totals and give change from		Who has the Money? (GBP)
multiples of 10p	Measurement	Identify Everyday Money (GBP)
Using Measuring Skills: Length, weight/r	nass, capacity	
2M1a use standard units to measure:	Measurement	How Long is that?
<ul> <li>length, height and distance: metres, half metres or centimetres</li> </ul>		Measure to the Nearest Half Centimetre
– weight/mass: kilograms or 10 gram		How Heavy?
weights – capacity: litres		How Full?
t e e e e e e e e e e e e e e e e e e e	t and the second	



Expectation	Topic	Activity
Using Measuring Skills: Length, weight/n	nass, capacity (continued)	
2M1b use symbols related to length,		How Long is that?
	Measurement	Measure to the Nearest Half Centimetre
weight/mass and capacity 🌣	Medsorement	How Heavy?
		How Full?
Using Measuring Skills: Time		
2M2a read hours and minutes on a 12-		Tell Time to the Hour
hour digital clock	Measurement	Tell Time to the Half Hour (UK)
		Quarter to and Quarter past
2M2b record the days of the week, the	Measurement	Days of the Week
months and seasons of the year 💠		Months of the Year
2M2c read 'half past', 'quarter past' and		Tell Time to the Hour
'quarter to' on an analogue clock	Measurement	Tell Time to the Half Hour (UK)
·		Quarter to and Quarter past
Using Measuring Skills: Temperature	1	ı
2M3 compare daily temperatures using a thermometer (°C)		
Using Measuring Skills: Area and volume	e, Angle and position	
2M4a recognise half and quarter turns, clockwise and anti-clockwise	Shape and Space	Flip, Slide, Turn
2M4b recognise that a quarter turn is a right angle		
2M4c use mathematical vocabulary to		Flip, Slide, Turn
describe position, direction and		Left or Right?
movement 🌣	· · ·	Where is it?
Using Geometry Skills: Shape		
2G1a recognise and name regular and		Collect the Shapes
irregular 2D and 3D shapes, understand	Shape and Space	Relate Shapes and Solids
and use the properties of shape	Shape and Space	Match the Solids 2
and use me properties of shape *		Count Sides and Corners
2G1b make increasingly more complex or		
accurate models with 3D shapes and		
tessellate 2D shapes *		
Using Geometry Skills: Movement		
2G3 identify a line of symmetry for 2D	Change and Change	Symmetry
shapes and complete symmetrical pictures �	Shape and Space	Symmetry or Not?
Using Data Skills: Collectand record, Pre	sent and analyse data, Interpret da	ta .
2D1a sort and classify objects using more		



Expectation	Topic	Activity	
Using Data Skills: Collectand record, Pre	Using Data Skills: Collectand record, Present and analyse data, Interpret data (Continued)		
2D1b gather and record data from:  - lists and tables	Data E	Tallies	
- diagrams		Picture Graphs	
<ul><li>block graphs</li><li>pictograms where the symbol</li></ul>		Column Graphs	
represents one unit		Interpreting Tables	
2D1c extract and interpret information from lists, tables, diagrams and graphs	Data	Tallies	
		Picture Graphs	
		Column Graphs	
		Interpreting Tables	



Expectation	Topic	Activity
Developing Number Reasoning: Identify		
3R1a transfer mathematical skills to a	Add and Subtract	Problems: Add and Subtract
variety of contexts and everyday situations	Multiply and Divide	Multiplication Problems 1
3R1b identify the appropriate steps and	Add and Subtract	Problems: Add and Subtract
information needed to complete the task or reach a solution	Multiply and Divide	Multiplication Problems 1
		Skip Counting
		Count Forward Patterns
3D1		Count Backward Patterns
3R1c select appropriate mathematics and	Patterns and Relationships	Pyramid Puzzles 1
techniques to use	· ·	Missing Values
		Partition Puzzles 1
		Bar Model Problems 1
		How Long is That?
3R1d select and use suitable instruments		Measure to the Nearest Half Centimetre
and units of measurement	Meaurement	How Heavy?
and only of medsorement		Which Unit of Measurement?
		Temperature
		Problems: Add and Subtract
		Fact Families: Add and Subtract
		Related Facts 1
3R1e choose an appropriate mental or		Complements to 10, 20, 50
written strategy and know when it is	Add and Subtract- Mental	Complements to 50 and 100
appropriate to use a calculator		Estimate Sums
appropriate to use a calculator		Estimate Differences
		Find the Missing Number 1
		Problems: Add and Subtract
	Multiply and Divide	Multiplication Problems 1
		How Long is That?
3R1f estimate and visualise size when measuring and use the correct units		Measure to the Nearest Half Centimetre
	Meaurement	How Heavy?
		Which Unit of Measurement?
		Temperature
Developing Number Reasoning: Represe	ent and communicate	
3R2a explain results and procedures		
clearly using mathematical language		



Expectation	Topic	Activity
Developing Number Reasoning: Represe	ent and communicate (Continued)	
		Columns that Add
		Columns that Subtract
3R2b refine informal methods of		Column Addition 1
recording written calculations, moving to	Add and Subtract	Column Subtraction
formal methods of calculation when	Add and Subtract	Add Two 2-Digit Numbers
developmentally ready		Add Three 2-Digit Numbers
		Subtract Numbers
		2-Digit Differences
		How Long is That?
202		Measure to the Nearest Half Centimetre
3R2c use appropriate notation, symbols	Measurement	How Heavy?
and units of measurement		Which Unit of Measurement?
		Temperature
		Picture Graphs
3D2d calcat and annaturation		Interpreting Tables
3R2d select and construct appropriate	Data	Reading from a Column Graph
charts, diagrams and graphs with suitable		Venn Diagrams
scales		Add and Subtract Using Graphs
		Caroll Diagram
3R2e recognise, and generalise in words,		Count Forward Patterns
patterns that arise in numerical, spatial or	Patterns and Relationships	Count Backward Patterns
practical situations 💠		Skip Counting
2D2f viewelies and describe above		How many Edges?
3R2f visualise and describe shapes, movements and transformations *	Shape	How many Faces?
movements and transformations *	·	How many Corners?
Developing Number Reasoning: Review		
		Problems: Add and Subtract
		Fact Families: Add and Subtract
3R3a select from an increasing range of checking strategies to decide if answers are reasonable		Related Facts 1
	Add and Subtract- Mental	Complements to 10, 20, 50
	Add and Subtract- Mental	Complements to 50 and 100
		Estimate Sums
		Estimate Differences
		Find the Missing Number 1
	Multiply and Divide	Multiplicaton Promblems 1



Expectation	Topic	Activity
Developing Number Reasoning: Review		
		Problems: Add and Subtract
		Fact Families: Add and Subtract
2021		Related Facts 1
3R3b interpret answers within the context		Complements to 10, 20, 50
of the problem and consider whether answers, including calculator, analogue	Add and Subtract- Mental	Complements to 50 and 100
and digital displays, are sensible		Estimate Sums
and digital displays, are sensible		Estimate Differences
		Find the Missing Number 1
		Problems: Add and Subtract
		Picture Graphs
303		Interpreting Tables
3R3c draw conclusions from data and	Data	Reading from a Column Graph
recognise that some conclusions may be	Data	Venn Diagrams
misleading or uncertain		Add and Subtract Using Graphs
		Caroll Diagram
Using Number Skills: Use number facts	and relationships	
2N12 d d	Number and Place Value to 1000	Model Numbers
3N1a read and write numbers to 1 000		Place Value 2
	Number and Place Value to 100	Which is Bigger?
		Which is smaller?
3N1b compare and estimate with		Greater or Less to 100
numbers up to 100		Compare Numbers to 100
		Before, After & Between to 100
		Arranging Numbers
		Place Value 2
3N1c explain the value of a digit in		Partition and Rename 1
numbers up to 1 000 �	Number and Place Value to 1000	Place Value Partitioning
nombors op 10 1 000 V		Expanding Numbers
		Model Numbers
3N1d use mental strategies to recall	Add and Subtract- Mental	All about Twenty
number facts within 20	A GODING WOUND	Complements to 10, 20 and 50
		Groups of Three
3N1e recall 2, 3, 4, 5 and 10	Multiply and Divide	Groups of Four
multiplication tables and use to solve multiplication and division problems		Dividing Twos
		Dividing Fives
		Dividing Tens
		Multiplication Problems 1



Expectation	Topic	Activity
Using Number Skills: Use number facts of		
3N1f multiply numbers by 10		
3N1g identify multiples of 2, 3, 4, 5 and	Multiply and Divide	Multiples of
10; use the term multiple 🏻 🌣	Moniply and Divide	Moniples of
3N1h identify odd and even numbers up	Patterns and Relationships	Odd or Even
to 1 000 🂠	· ·	Odd and Even Numbers 1
Using Number Skills: Fractions, decimals	, percentages and ratios	The state of the s
3N2a use halves and quarters	Fractions	Halves and Quarters
·		Partition into Equal Parts
3N2b halve 2-digit numbers in the		
context of number, money and measures		
3N2c find fractional quantities linked to	Fractions	Unit Fractions
known multiplication facts, e.g. 1 / 3 of 18,	1 raciions	Fractions of a Collection 1
3N2d recognise a quarter as a half of a		
half �		
Using Number Skills: Calculate using me	ntal and written methods	
		Estimate Differences
3N3a find differences within 100	Add and Subtract - Mental	Related Facts 1
		Find the Missing Number 1
3N3b use mental strategies to add and		Addictive Addtion
subtract 2-digit numbers	Add and Subtract - Mental	Subtract Numbers
		Find the Missing Number 1
3N3c use partitioning to double and halve		
2-digit numbers		
3N3d define a negative number as being		
less than 0 🌣		
Using Number Skills: Estimate and check		5 . 5
2014		Fact Families: Add and Subtract
3N4a check subtraction using addition	Add and Subtract - Mental	Related Facts 1
		Find the Missing Number 1
3N4b check halving using doubling	Patterns and Relationships	Doubles and Halves to 20
3N4c check multiplication using repeated	Multiply and Divide	Frog Jump Multiplication
addition	memply and binde	Trag camp mamphanan
Using Number Skills: Manage money		
3N5a to pay for items up to £2 and	Measurement	Money - Adding (GBP)
calculate the change		Who has the Money?
3N5b order and compare items up to £10		
3N5c record money spent and saved		



Expectation	Topic	Activity
Using Measuring Skills: Length, weight/n	nass, capacity	
3M1a recognise that perimeter is the distance around a shape	Measurement	Perimeter of Shapes
3M1b use standard units to estimate and measure:		Measure to the Nearest Half Centimetre
– length: measure on a ruler to the nearest ½ cm	Measurement	How Long is That?
– weight/mass: use 5g, 10g and 100g weights	Measurement	How Heavy?
<ul> <li>capacity: use litres and half litres;</li> <li>measure to the nearest 100ml</li> </ul>		Temperature
Using Measuring Skills: Time		
3M2a tell the time to the nearest 5 minutes on an analogue clock and calculate how long it is to the next hour	Measurement	Five Minute Times
3M2b read hours and minutes on a 12- hour digital clock using am/pm conventions	Measurement	Quarter to and Quarter past
3M2c calculate start times, finish times and durations using hours, 30-minute intervals and 15-minute intervals ❖	Measurement	Elapsed Time
Using Measuring Skills: Temperature		
3M3 take temperature readings using thermometers and interpret readings above and below 0°C	Measurement	Temperature
Using Measuring Skills: Area and volume	e, Angle and position	
3M4a find areas by counting squares	Space	Area of Shapes Biggest Shape Equal Areas
3M4b identify right angles 💠	Shape	Right Angle Relation
3M4c recognise that two right angles make a half turn, and that four right angles make a full turn		
3M4d describe an angle as more or less than a right angle �	Shape	Right Angle Relation
3M4e use the four compass points to describe directions	Space	What Direction was That?



Expectation	Topic	Activity
Using Geometry Skills: Shape		
3G1a recognise and classify triangles, squares, rectangles, pentagons	Shape	Collect the Shapes 1
and hexagons, including irregular cases	*	Collect More Shapes
3G1b identify congruent shapes 🌣		
3G1c recognise 3D shapes, including prisms ❖		
Using Geometry Skills: Construction		
3G2 draw lines to the nearest half centimetre ❖		
Using Geometry Skills: Movement		
3G3a identify lines of symmetry in 2D shapes ❖	Shape	Symmetry Lines of Symmetry
3G3b draw horizontal and vertical lines of symmetry �		
Using Algebra Skills: Number Sequences		
3A1a explore sequences of whole numbers involving addition and subtraction, e.g. counting in 2s, 3s and 4s	Patterns and Relationships (1)	Skip Counting Skip Counting with Coins Count Forward Patterns Count Backward Patterns Count by 2s, 5s and 10s
from different starting points *	Multiply and Divide	Groups of Three Groups of Four
3A1b write the next two (or more) terms in sequences that involve addition or subtraction �	Patterns and Relationships (1)	Count by 2s, 5s and 10s
Using Algebra Skills: Function Graphs		
3A3 use one and two step function machines to generate input and output involving addition and subtraction within 100; express, in words, the operations of function machines		
Using Algebra Skills: Equations and ineq	ualities	
3A4a find an 'unknown' in one step equations and use this to derive other	Patterns and Relationships (2)	Missing Vaules
facts, e.g. 37 + " = 100 therefore 100 − 37 = " ❖	Add and Subtract - Mental	Fact Families: Add and Subtract Related Facts 1



Expectation	Торіс	Activity
Using Algebra Skills: Equations and inequalities		
3A4b list numbers that are 'greater than'		Ascending Order
	Number and Place Value (1)	Descending Order
or 'less than' another number 💠	Nomber and Flace value (1)	Which is Less?
		Which is More?
3A4c read statements about numbers expressed using an inequality sign, e.g. 6 > 4 ❖	Number and Place Value (1)	Compare Numbers to 100
Using Data Skills:		
2D1s represent data union		Interpreting Tables
3D1a represent data using: - lists, tally charts, tables and diagrams		Tallies
- bar charts and bar line graphs labelled		Caroll Diagram
in 2s, 5s and 10s	Statistics	Pictographs
<ul> <li>pictograms where one symbol represents more than one unit using</li> </ul>		Bar Graphs 1
a key		Bar Graphs 2
- Venn and Carroll diagrams		Reading from a Bar Chart
		Interpreting Tables
		Tallies
3D1b extract and interpret information from charts, timetables, diagrams and graphs.		Caroll Diagram
	Statistics	Pictographs
		Bar Graphs 1
		Bar Graphs 2
		Reading from a Bar Chart



Expectation	Topic	Activity
Developing Number Reasoning: Identifyi	·	
4R1a transfer mathematical skills to a variety of contexts and everyday situations	Add and Subtract - Mental	Find the Missing Number 1
		Problems: Add and Subtract
101b ideatify the apprentiate stone and		Problems: Add and Subtract
4R1b identify the appropriate steps and information needed to complete the task	Add and Subtract - Mental	Related Facts 1
or reach a solution		Find the Missing Number 1
or reach a solution	Multiply and Divide - Written	Related Facts 2
		Problems: Add and Subtract
	Add and Subtract - Mental	Related Facts 1
		Find the Missing Number 1
4R1c select appropriate mathematics and	Multiply and Divide - Written	Related Facts 2
techniques to use		Pick the Next Number
	D	Describing Patterns
	Patterns and Relationships	Count Forwards Patterns
		Count Backwards Patterms
4R1d select and use suitable instruments	Management	Measuring Length
and units of measurement	Measurement	How Heavy?
		Problems: Add and Subtract
		Fact Familes: Add and Subtract
		Complements to 10, 20, 50
		Complements to 50 and 100
	Add and Subtract - Mental	Related Facts 1
		Estimate sums
4R1e choose an appropriate mental or		Estimate Differences
written strategy and know when it is		Find the Missing Number 1
appropriate to use a calculator		Pyramid Puzzles 1
appropriate to ose a calculator		Groups of Three
		Groups of Four
	Multiply and Divide - Facts	Groups of Six
	Momply and Divide 1 dels	Dividing Threes
		Dividing Fours
		Dividing Sixes
	Multiply and Divide - Written	Related Facts 2
4R1f estimate and visualise size when	Measurement	Measuring Length
measuring and use the correct units		How Heavy?



Expectation	Topic	Activity
Developing Number Reasoning: Represent and communicate		
4R2a explain results and procedures clearly using mathematical language		
4R2b refine informal methods of recording written calculations, moving to formal methods of calculation when developmentally ready	Add and Subtract - Written	Strategies for Column Addition (UK) Subtract Numbers: Regoup Add Numbers: Regroup a Ten Add Two 2-Digit Numbers 2-Digit Differences 2-Digit Differences: Regroup Add Three 2-Digit Numbers Add Three 2-Digit Numbers: Regroup (UK)
	Multiply and Divide - Written	Multiply: 2-Digit by 1-Digit Multiply: 1-Digit Number Multiply 1-Digit Number, Regroup Mental Methods Multiplication 1 Divide: 1-Digit Divisor Mental Methods Division Grid Methods 1 Related Facts 2
4R2c use appropriate notation, symbols and units of measurement	Measurement	Measuring Length Perimeter Using a Litre How Heavy? Temperature
4R2d select and construct appropriate charts, diagrams and graphs with suitable scales		
4R2e recognise, and generalise in words, patterns that arise in numerical, spatial or practical situations	Patterns and Relatioships	Pick the Next Number Describing Patterns Count Forward Patterns Count Backward Patterns



Expectation	Topic	Activity
Developing Number Reasoning: Represe	nt and communicate	
	Space	What Direction was That?
		Map Coordinates
4R2f visualise and describe shapes,	Shape	Sides, Angles and Diagonals
movements and transformations *		Collect More Shapes
Thoverneins and Iransformations •		Faces, Edges and Vertices
		Collect the Polygons
		Triangle Tasters
Developing Number Reasoning: review		
4R3a select from an increasing range of checking strategies to decide if answers	Add and Subtract - Mental	Estimate Sums
are reasonable	Add dild Sobilder - Merildi	Estimate Differences
		Problems: Add and Subtract
		Fact Familes: Add and Subtract
4R3b interpret answers within the context		Complements to 10, 20, 50
of the problem and consider whether		Complements to 50 and 100
answers, including calculator, analogue	Add and Subtract - Mental	Related Facts 1
and digital displays, are sensible		Estimate Sums
and digital displays, are consists		Estimate Differences
		Find the Missing Number 1
		Pyramid Puzzles 1
4R3c draw conclusions from data and recognise that some conclusions may be	Data	Bar Graphs 1
misleading or uncertain	Bala	Line Graphs: Interpretation
Using Number Skills: Use number facts (	and relationships	
		Model Numbers
	Number and Place Value to 1000	Place Value 2
4N1a read and write numbers to	Nottiber and Flace value to 1000	Partition and Rename 1
10 000		Place Value Partitioning
10 000	Noveles and Disease Wales at a	Place Value to Thousands
	Number and Place Value to	Place Value 3
	10 000	Partition and Rename 2
4N1b compare and estimate with numbers up to 1 000		



#### Year ∠

Expectation	Topic	Activity
Using Number Skills: Represent and cor		
		Groups of Two
		Groups of Three
		Groups of Four
		Groups of Five
4N1c use mental strategies to recall		Groups of Six
multiplication tables for 2, 3, 4, 5, 6 and	Multiply and Divide - Facts	Groups of Ten
10 and use to solve division problems	Monipiy and Divide - Facis	Dividing Twos
to and use to solve division problems		Dividing Threes
		Dividing Fours
		Dividing Fives
		Dividing Sixes
		Dividing Tens
4N1d multiply and divide numbers by 10 and 100	Multiply and Divide - Facts	Place Value 1 (×10 and ÷10)
		Groups of Two
		Groups of Three
		Groups of Four
		Groups of Five
ANIIa idaatify mydtinlaa af 2, 2, 4, 5, 6		Groups of Six
4N1e identify multiples of 2, 3, 4, 5, 6	Multiply and Divide Foots	Groups of Ten
and 10; use the terms multiple and factor	Multiply and Divide - Facts  Dividing Twos	Dividing Twos
*		Dividing Threes
		Dividing Fours
		Dividing Fives
		Dividing Sixes
		Dividing Tens
Using Number Skills: Fractions, decimal	s, percentages and ratio	
4N2a halve 3-digit numbers in the context of number, money and measures		
		Unit Fractions
4N2b find fractional quantities using	Fractions	Fraction Fruit Sets 1
known table facts, e.g. 1 / 6 of 30cm	Fractions	Fractions of a Collection 2
		Model Fractions
		Thirds and Sixths
4N2c recognise fractions that are several	<b>.</b>	
parts of a whole, e.g. 2 / 3, 3 / 10	Fractions	Part-whole Rods 1
		What Fraction is Shaded?
		What Mixed Number is Shaded?



Expectation	Topic	Activity
Using Number Skills: Calculate using me	ental and written methods	
		Problems: Add and Subtract
		Fact Families: Add and Subtract
		Complements to 10, 20, 50
	Add and Subtract - Mental	Completements 10 50 and 100
3N3a find differences within 100		Estimate Differences
SNSd find differences wiffin 100		Find the Missing Number 1
		Pyramid Puzzles 1
		2-Digit Differences
	Add and Subtract - Written	Subtract Numbers: Regroup
		2-Digit Differences: Regroup
		Problems: Add and Subtract
		Fact Families: Add and Subtract
		Complements to 10, 20, 50
3N3b use mental strategies to add and		Completements 10 50 and 100
subtract 2-digit numbers	Add and Subtract - Mental	Related Facts 1
Sobilaci Z-aigii nombers		Estimate Sums
		Estimate Differences
		Find the Missing Number 1
		Pyramid Puzzles 1
3N3c use partitioning to double and halve		
2-digit numbers		
3N3d define a negative number as being		
less than 0 🌣		
Using Number Skills: Estimate and chec	k	
4N4a check answers using inverse	Add and Subtract - Mental	Fact Families: Add and Subtract
operations	Add and Subtract - Mental	Related Facts 1
4N4b estimate by rounding to the nearest	News Lawrence of Physics Volume to 1000	Nearest 10?
10 or 100	Number and Place Value to 1000	Nearest 100?
Using Number Skills: Manage money		
4N5a use money to pay for items up to	M	11 Mla -la -a -a - 2 (CDD)
£10 and calculate the change	Measurement	How Much change? (GBP)
4N5b order and compare items up to		
£100		



Expectation	Topic	Activity
Using Number Skills: Manage money (Co		
4N5c add and subtract totals less than		
£10 using correct notation, e.g. £6.85 -		
£2.76		
A)E I		
4N5d manage money, compare costs from different retailers and determine		
what can be bought within a given budget		
Using Measuring Skills: Length, weight/	mass capacity	
4M1a measure and calculate the	mass, capacity	
perimeter of squares and rectangles	Measurement	Perimeter: Squares and Rectangles
4M1b select and use appropriate		Measuring Length
standard units to estimate and measure	Measurement	Using a Litre
length, weight/mass and capacity �	Wedsorement	How Heavy?
terigin, weigin, mass and supposit		Temperature
4M1c measure on a ruler to the nearest		
mm and record using a mix of units, e.g.		
1cm 3mm		
4M1d measure capacities to the nearest		
50ml or 100m		
4M1e convert metric units of length to		Converting Units of Length
smaller units, e.g. cm to mm, m to cm, km to m	Measurement	Kilometre Conversions
4M1f choose appropriate metric units to		
measure length, weight/mass and	Measurement	Measuring Length
capacity �		How Heavy?
Using Measuring Skills: Time		
4M2a tell the time to the nearest minute		
on analogue clocks		
4M2b read hours and minutes on a 24-		
hour digital clock		
4M2c time and order events in seconds		
4M2d use calendars to plan events		
4M2e calculate start times, finish times and durations using 5-minute intervals *		
4M2f convert between 12- and 24-hour		
clock times ❖		



Expectation	Topic	Activity
Using Measuring Skills: Time (Continued)	·	
4M2g estimate the number of minutes		
everyday activities take to complete ❖		
Using Measuring Skills: Temperature		
4M3 take temperature readings using		
thermometers and interpret readings		
above and below 0°C		
Using Measuring Skills: Area and volume	, Angle and position	
4M4a recognise volume in practical contexts	Space	Comparing Volume
4M4b use a protractor to check if an		Equal Angles
angle is more or less than a right angle	Space	What Type of Angle?
-		Measuring Angles
4M4c use eight compass points to describe direction	Space	What Direction was That?
Using Geometry Skills: Shape		
4G1a recognise, classify and sketch		Collect More Shapes
polygons with up to eight sides, including	Shape	
irregular shapes 🌣		Collect Polygons
4G1b recognise and classify 3D shapes, using their own criteria ❖	Shape	Faces, Edges and Vertices
Using Geometry Skills: Construction		
4G2a draw lines to the nearest millimetre		
*		
4G2b recognise and draw perpendicular		
and parallel lines 💠		
Using Geometry Skills: Movement		
4G3a draw lines of symmetry 4G3b draw the reflection of a shape in a		
horizontal or vertical line		
Using Algebra Skills: Number Sequences		
4A1a explore sequences of positive whole		Pick the Next Number
numbers involving addition and	Detteres and Daletin hin-	Describing Patterns
subtraction in 2s, 3s, 4s, 5s, 6s, 8s and	Patterns and Relationships	Count Forward Patterns
10s from different starting points 🏻 🌣		Count Backward Patterns
4A1b write the next two (or more) terms in		Pick the Next Number
sequences that involve addition or	Patterns and Relationships	Describing Patterns
subtraction *		Count Forward Patterns
		Count Backward Patterns



Expectation	Topic	Activity
Using Algebra Skills: Functions and graphs		
4A3 use one and two step function machines to generate input and output using all four operations; express, in words, the operations of function machines •		
Using Algebra Skills: Equationa dn inequ	alities	
4A4a use < > to describe whether a number is less than or greater than another �	Number and Place Value to 1000	Compare Numbers to 100
4A4b find an 'unknown' in two step equations, e.g. 4 x " + 1 = 25		
Using Data Skills: Collect and record dat	a, Present and analyse data, Iterpre	et data
4D1a represent data using:  - lists, tally charts, tables and diagrams  - bar charts and bar line graphs labelled in 2s, 5s and 10s  - pictograms where one symbol represents more than one unit using a key  - Venn and Carroll diagrams		
4D1b extract and interpret information from charts, timetables, diagrams and graphs.	Data	Bar Graphs 1 Line Graphs: Interpretation Carroll Diagam Venn Diagram 1



Expectation	Topic	Activity
Developing Number Reasoning: Identifying processes and connections		
		Estimate Sums
5R1a transfer mathematical skills to a		Estimate Differences
variety of contexts and everyday situations	Add and Subtract - Mental	Split Add and Subtract
variety of cornexts and everyday shouldn't		Bump Add and Subtract
		Pyramid Puzzles 2
		Estimate Sums
5R1b identify the appropriate steps and		Estimate Differences
information needed to complete the task	Add and Subtract - Mental	Split Add and Subtract
or reach a solution		Bump Add and Subtract
		Pyramid Puzzles 2
		Estimate Sums
5R1c select appropriate mathematics and		Estimate Differences
techniques to use	Add and Subtract - Mental	Split Add and Subtract
recrimques to use		Bump Add and Subtract
		Pyramid Puzzles 2
5R1d select and use suitable instruments	Measurement	Meausring Length
and units of measurement		Measure to the Nearest Half Centimetre
		Estimate Sums
5R1e choose an appropriate mental or		Estimate Differences
written strategy and know when it is	Add and Subtract - Mental	Split Add and Subtract
appropriate to use a calculator		Bump Add and Subtract
		Pyramid Puzzles 2
5R1f estimate and visualise size when	Management	Meausring Length
measuring and use the correct units	Measurement	Measure to the Nearest Half Centimetre
Developing Number Reasoning: Represent and Communicate		
5R2a explain results and procedures		
clearly using mathematical language		



Expectation	Topic	Activity	
Developing Number Reasoning: Represent and Communicate (Continued)			
		Problems: Add and Subtract	
		Fact Families: Add and Subtract	
		Complements to 10, 20 and 50	
		Complements to 50 and 100	
	Add and Subtract - Mental	Related Facts 1	
		Estimate Sums	
		Estimate Differences	
		Find the Missing Number 1	
		Pyramid Puzzles 1	
		Strategies for Column Addition	
		Subtract Numbers: Regroup	
5R2b refine informal methods of		Add Numbers: Regroup a Ten	
recording written calculations, moving to	Add and Subtract - Written	Add Two 2-Digit Numbers	
formal methods of calculation when	Add and Subtract - Written	2-Digit Differences	
developmentally ready		2-Digit Differences: Regroup	
		Add Three 2-Digit Numbers	
		Add Three 2-Digit Numbers: Regroup	
	Multiply and Divide - Written	Multiply: 2-Digit by 1-Digit	
		Multiply: 1-Digit Number	
		Multiply: 1-Digit Number, Regroup	
		Mental Methods Multiplication	
		Divide: 1-Digit Divisor 1	
		Mental Methods Division	
		Grid Methods 1	
		Related Facts 2	
5R2c use appropriate notation, symbols		reduced Lacis E	
and units of measurement			
5R2d select and construct appropriate			
charts, diagrams and graphs with suitable			
scales		D 11: D 11	
5R2e recognise, and generalise in words,	Patterns and Relationships	Describing Patterns	
patterns that arise in numerical, spatial or		Count Forward Patterns	
practical situations *		Count Backward Patterns	
practical stroutions +		Pick the Next Number	



Expectation	Topic	Activity	
Developing Number Reasoning: Identifying processes and connections (Continued)			
		Symmetry or Not?	
	Chanas	Sides, Angles and Diagonals	
		Collect More Shapes	
	Shapes	Faces, Edges and Vertices	
		Collect the Polygons	
5R2f visualise and describe shapes,		Triangle Tasters	
movements and transformations І 💠		What Direction was That?	
		Equal Angles	
	Space	What Type of Angle?	
	Space	Measureing Angles	
		Map Coordinates	
		Scale	
Developing Number Reasoning: Review			
5R3a select from an increasing range of checking strategies to decide if answers	Add and Subtract - Mental	Estimate Sums	
are reasonable		Estimate Differences	
		Problems: Add and Subtract	
		Fact Families: Add and Subtract	
ED3h istamont a course within the context		Complements to 10, 20 and 50	
5R3b interpret answers within the context of the problem and consider whether		Complements to 50 and 100	
answers, including calculator, analogue	Add and Subtract - Mental	Related Facts 1	
and digital displays, are sensible		Estimate Sums	
and digital displays, are sensible		Estimate Differences	
		Find the Missing Number 1	
		Pyramid Puzzles 1	
		Divided Bar Graphs	
5R3c draw conclusions from data and		Pie Charts	
		Tallies	
recognise that some conclusions may be	Data	Reading Values from a Line	
misleading or uncertain		Data Extremes Range	
		Missing Values	
		Table of Values	



Expectation	Topic	Activity
Using Number Skills: Use number facts	<u>.                                      </u>	
5N1a read and write numbers to 100 000	Whole Numbers	Numbers in Words
5N1b compare numbers with 1 and 2		Comparing Decimals
decimal places	Decimal Numbers	Decimal Order
decirral piaces		Decimals on the Number Line
		Groups of Eight
5N1c use mental strategies to recall		Dividing Eights
multiplication tables for 2, 3, 4, 5, 6, 8	Multiply and Divide - Facts	Mulitplication Facts
and 10 and use to solve division problems		Division Facts
		Related Facts 2
5N1d multiply and divide numbers and decimals by 10 and 100	Multiply and Divide - Facts	Place Value 1 (×10 and ÷10)
		Groups of Eight
5N1e identify multiples of 2, 3, 4, 5, 6, 8		Dividing Eights
and 10; use the terms multiple and factor	Multiply and Divide - Facts	Multiplication Facts
<b>♦</b>		Division Facts
		Factors
5N1f identify prime numbers as having only two factors; recognise that 1 is not a prime number �		
5N1g identify prime numbers below 10 🎄		
Using Number Skills: Fractions, decimals	s, percentages and ratio	
5N2a use understanding of simple fraction and decimal equivalences when measuring and calculating, e.g. ½ = 0.5, 1 / 10 = 0.1	Fractions and Decimals	Fractions to Decimals
5N2b calculate fractional quantities, e.g. 1		Fractio of an Amount
/ 8 of 24 = 3, so 5 / 8 of 24 = 15use doubling and halving strategies	Fractions and Decimals	Fraction Fruit Sets 2
when working with simple proportions		Fraction Word Problems
5N2c share objects in a given ratio, e.g. red blocks and blue blocks in a ratio of 1:2 �		
5N2d recognise connections between	Fractions and Decimals	Equivalent Fractions
fractions, e.g. one-tenth is half of one- fifth �		Equivalent Fractions on a Number Line
		Simplifying Fractions



Expectation	Торіс	Activity	
Using Number Skills: Use number facts of	Using Number Skills: Use number facts and relationships (Continued)		
5N2e add and subtract fractions with the	Fractions and Decimals	Add: Common Denominator	
same denominator 🂠	Fractions and Decimals	Subtract: Common Denominator	
5N2f add fractions with the same denominator to make a whole	Fractions and Decimals	One Take Fraction	
Using Number Skills: Calculate using me	ntal and written methods		
5N3a find differences between numbers with 1 decimal place			
		Add 3-Digit Numbers	
		Add Three 3-Digit Numbers: Regroup	
5N3b add and subtract 3-digit numbers		3-Digit Difference	
using an appropriate mental or written	Add and Subtract - Written	3-Digit Differences with Zeros	
method		3-Digit Differences: 2 Regroupings	
		Adding Colossal Columns (UK)	
		Subtracting Colossal Columns	
5N3c multiply and divide 3-digit numbers	Multiply and Divide - Written	Multiply: 1-Digit Number	
by a single-digit number	Womply and Divide Williem	Grid Methods 1	
	Whole Numbers	Ascending Order	
	Whole Horribers	Descending Order	
5N3d order negative and positive	Decimal Numbers	Decimal Order	
numbers, including decimals to 1 decimal	Decimal Numbers	Decimals on the Number Line	
place �		Pick the Next Number	
	Patterns and Relationships	Increasing Patterns	
		Decreasing Patterns	
Using Number Skills: Estimate and check			
	Patterns and Relationships	Missing Values	
5N4a check answers using inverse		Magic Symbols 1	
operations	Add and Subtract - Mental	Estimate Sums	
		Estimate Differences	



Expectation	Topic	Activity
Using Number Skills: Manage money		
5N5a order and compare the cost of items up to £1 000		
5N5b add and subtract totals less than £100 using correct notation, e.g. £28.18 + £33.45	Measurement	Money - Adding (GBP)
5N5c plan and track money and savings by keeping accurate records		
5N5d realise that budgeting is important		
Using Measuring Skills: Length, weight/n	nass, capacity	
5M1a measure and calculate perimeters	Measurement	Perimeter: Squares and Rectangles 1
5M1b make estimates of length, weight/mass and capacity based on knowledge of the size of real-life objects		Perimeter: Triangles
5M1c use measuring instruments with 10 equal divisions between each major unit, and record using decimal notation, e.g.	Measurement	Grams and Kilograms 1
4.2cm, 1.3kg		Converting Units of Length
5M1d make use of conversions, e.g. ¼ of	Measurement	Grams and Kilograms 1
a km = 250m	Medsorement	Converting Units of Length
5M1e recognise the appropriateness of units in different contexts �		
Using Measuring Skills: Time		
5M2a read and use analogue and digital clocks	Measurement	24 Hour Time
5M2b time events in minutes and seconds, and order the results		
5M2c calculate start times, finish times and durations using hours and minutes ❖	Measurement	Elapsed Time
5M2d carry out practical activities involving timed events and explain which unit of time is the most appropriate		
5M2e estimate the length of time everyday activities take to complete, extending to hours and quarters of hours		



Expectation	Topic	Activity
Using Measuring Skills: Temperature		
5M3a measure and record temperatures involving positive and negative readings		
5M3b calculate temperature differences, including those involving temperature rise and fall across 0°C		
Using Measuring Skills: Area and volume	, Angle and position	
5M4a calculate, estimate and compare the area of squares and rectangles using standard units		
5M4b find volumes by counting and other practical methods		
5M4c recognise acute and obtuse angles		Triangles: Acute, Right, Obtuse
Tecognise acore and obrose angles	Shape	Classifying Angles
		Measuring Angles
5M4d draw and measure acute angles in multiples of 10 degrees 💠		
5M4e use coordinates to specify location		
Using Geometry Skills: Shape		
5G1a recognise and classify triangles, using their own criteria �	Shape	Triangles: Acute, Right, Obtuse
5G1b identify congruent shapes and justify whether two or more shapes are congruent �		
Using Geometry Skills: Construction		
5G2a draw and label lines accurately, e.g. AB ❖		
5G2b draw squares, rectangles and right angled triangles accurately		
5G2c construct solids from given nets	Shape	Nets
Using Geometry Skills: Movement		
5G3a draw the reflection of a shape in any line �	Shape	Symmetry or Not?
5G3b complete a partly drawn shape after rotation �	Shape	Transformations
5G3c translate a shape on squared paper horizontally or vertically		



Expectation	Topic	Activity	
Using Algebra Skills: Number Sequences	Using Algebra Skills: Number Sequences		
5A1a recognise and state the difference		Pick the Next Number	
	D. II	Describing Patterns	
in sequences that involve adding or subtracting �	Patterns and Relationships	Incresing Patterns	
subtracting *		Decreasing Patterns	
		Pick the Next Number	
5A1b write the next two (or more) terms in	Dattana and Dalatinashina	Describing Patterns	
sequences 🌣	Patterns and Relationships	Incresing Patterns	
		Decreasing Patterns	
5A1c show that a number is in the		Pick the Next Number	
sequence and/or find the position number	Dattavas and Dalatinashina	Describing Patterns	
by continuing the sequence or otherwise	Patterns and Relationships	Incresing Patterns	
*		Decreasing Patterns	
Using Algebra Skills: Functions and grap	hs		
5A3a use multistep function machines to generate input and output using all four operations; express, in words, the operations of function machines			
EASh wood plat and unite coordinates in	Space	Coordinate Meeting Place	
5A3b read, plot and write coordinates in one quadrant, e.g. (2, 4)		Using a Key	
one quadram, e.g. (2, 4)		Coordinate Graphs: 1st Quadrant	
Using Data Skills: Collect and record dat	a, Present and analyse data, Interp	ret data	
FD1		Divided Bar Graphs	
5D1a represent data using:		Pie Charts	
– lists, tally charts, tables, diagrams and frequency tables	Data	Using Timetables	
- bar charts, grouped data charts, line	Daid	Tallies	
graphs and conversion graphs		Reading Values from a Line	
graphs and conversion graphs		Data Extremes and Range	
		Divided Bar Graphs	
5D1b extract and interpret information		Pie Charts	
from an increasing range of diagrams, timetables and graphs (including pie charts)	Data	Using Timetables	
	Daid	Tallies	
		Reading Values from a Line	
		Data Extremes and Range	
ED1a usa madia a sada a da sada sada sada sada sad	Data	Mean	
5D1c use mean, median, mode and range to describe a data set		Median	
		Mode	



Expectation	Topic	Activity	
Using Data Skills: Probability	Using Data Skills: Probability		
ED2a was the words (southing and		Missing Values	
5D2a use the words 'certain' and 'impossible' to describe the likelihood of	Probability	Table of Values	
an event occurring	Probability	Fair Games	
different occorning *		What are the Chances?	
		Missing Values	
5D2b recognise that some events are	Probability	Table of Values	
impossible and some events are certain 💠		Fair Games	
		What are the Chances?	
	Probability	Missing Values	
5D2c recognise that some events are		Table of Values	
more likely than others 💠		Fair Games	
		What are the Chances?	
5D2d use the words 'likely', 'unlikely' and 'even chance' �	Probability	Missing Values	
		Table of Values	
		Fair Games	
		What are the Chances?	



Expectation	Topic	Activity
Developing Number Reasoning: Identifyi	ng processes and connections	
	Add and Subtract	Pyramid Puzzles 2
		I am Thnking of a Number!
651 . 6		Table of Values
6R1a transfer mathematical skills to a	Dattana and Dalatina alian	Pattern Rules and Tables
variety of contexts and everyday situations	Patterns and Relationships	Magic Symbols 2
		Missing Numbers: Variables
		Multiplication Turnarounds
	Add and Subtract	Pyramid Puzzles 2
		I am Thnking of a Number!
6R1b identify the appropriate steps and		Table of Values
information needed to complete the task	Dattana and Dalatinashina	Pattern Rules and Tables
or reach a solution	Patterns and Relationships	Magic Symbols 2
		Missing Numbers: Variables
		Multiplication Turnarounds
	Add and Subtract	Pyramid Puzzles 2
		I am Thnking of a Number!
CD1	Patterns and Relationships	Table of Values
6R1c select appropriate mathematics and techniques to use		Pattern Rules and Tables
recrifiques to use		Magic Symbols 2
		Missing Numbers: Variables
		Multiplication Turnarounds
6R1d select and use suitable instruments and units of measurement	Measurement	Inches, Feet, Yards
		Adding Colossal Columns
		Subtracting Colossal Columns
6D1h		Add Decimals 1
6R1e choose an appropriate mental or	Add and Subtract	Magic Symbols 2
written strategy and know when it is appropriate to use a calculator	Add and Subtract	Missing Numbers: Variables
		Estimate Decimal Sums 2
		Estimate Decimal Differences 2
		Pyramid Puzzles 2
6R1f estimate and visualise size when measuring and use the correct units		



Expectation	Topic	Activity
Developing Number Reasoning: Represe	· · · · · · · · · · · · · · · · · · ·	
6R2a explain results and procedures clearly using mathematical language		
	Add and Subtract	Adding Colossal Columns Subtracting Colossal Columns Add Decimals 1 Magic Symbols 2 Missing Numbers: Variables Estimate Decimal Sums 2
		Estimate Decimal Differences 2 Pyramid Puzzles 2
	Multiply and Divide - Facts	Groups of Seven Groups of Nine Times Tables
6R2b refine informal methods of recording written calculations, moving to formal methods of calculation when developmentally ready		Dividing Sevens Dividing Nines Divisibility Tests (3, 4, 9) Factores
	Multiply and Divide	Prime Factoring Problems: Multiply and Divide Remainders by Tables
		Long Multiplication Prime or Composite? Grid Methods 2
		Multiply: 2-Digit Number, Regroup Divide: 2-Digit Divisor, Remainder Multiplcation Turnarounds Rounding Numbers for Division
6R2c use appropriate notation, symbols and units of measurement		Estimate Quotients
5R2d select and construct appropriate charts, diagrams and graphs with suitable scales		



Expectation	Topic	Activity
Developing Number Reasoning: Represe	nt and communicate (Continued)	
6R2e recognise, and generalise in words, patterns that arise in numerical, spatial or		Increasing Patterns
	Patterns and Relationships	Decreasing Patterns
practical situations 💠		I am Thinking of a Number!
		Shapes
6R2f visualise and describe shapes,	Shapes	Properties of Solids
movements and transformations 💠	Shapes	Nets
		Measuring Angles
Using Number Skills: Use number facts of	and relationships	
		Place Value to Millions
	Whole Numbers	Comparing Integers
6N1a read and write numbers to 1 million	vynole Numbers	Number Sequences up to 1 Million
and numbers to 3 decimal places		Numbers from Words to Digits 3
	Decimal Numbers	Decimals from Words to Digits 2
	Decimal Numbers	Decimal Pace Value
		Groups of Seven
		Groups of Nine
CNIII waa atal atmata siaa ta waasii	Multiply and Divide - Facts	Times Tables
6N1b use mental strategies to recall multiplication tables up to 10 x 10		Dividing Sevens
and use to solve division problems		Dividing Nines
and use to solve division problems		Divisibility Test (3, 4, 9)
	Multiply and Divide	Multiplcation Turnarounds
		Problems: Multiply and Divide
6N1c multiply numbers and decimals by a multiple of 10, e.g. 15 x 30, 1.4cm x 20	Multiply and Divide - Facts	Place Value 1 (x10 and ÷10)
CN11-1:-1		Multiples
6N1d identify multiples of numbers up to 10; use the terms multiple and factor	Multiply and Divide - Facts	Factors
10; use the terms moniple and factor •		Prime Factoring
6N1e identify common multiples of two numbers ❖	Multiply and Divide - Facts	Multiples
6N1f identify common factors of two numbers ❖	Multiply and Divide - Facts	Factors
6N1g identify prime numbers 💠		
6N1h know prime numbers below 20 🔹		



Expectation	Topic	Activity
Using Number Skills: Fractions, decimals	s, percentages and ratio	
		Fractions to Decimals
	For the control Designation	Comparing Fractions 1
6N2a use understanding of simple	Fractions and Decimals	Comparing Fractions 1b
fraction, decimal and percentage		Decimals to Fractions 1
equivalences, e.g. find 25% of 60cm and		Percent of a Number
know that this is equivalent to ¼ of 60cm	Davasatamas	Percentage to Fraction
	Percentages	Decimal to Percentage
		Percents to Decimals
6N2b calculate percentage quantities based on 10%, e.g. 20%, 5%, 15%	Percentages	Percent of a Number
6N2c use simple ratio and proportion		
6N2d use ratio to express two or more quantities in words .		
6N2e state the proportion of a whole that each share represents, e.g. recognise that in a ratio of 1:3, 1 part represents a quarter of the total .		
6N2f find equivalent fractions and use	E 15 . 1	Equivalent Fractions
these to add and subtract fractions 💠	Fractions and Decimals	Equivalent Fraction Wall 2
CNIO - circulify functions - A	Franking and Desired	Simplifying Fractions
6N2g simplify fractions І	Fractions and Decimals	Mixed to Improper
Using Number Skills: Calculate using me	ental and written methods	
		Adding Colossal Columns
		Subtracting Colossal Columns
		Add Decimals 1
6N3a add and subtract numbers using	Add and Subtract	Magic Symbols 2
whole numbers and decimals	Add drid Subirder	Missing Numbers: Variables
		Estimate Decimal Sums 2
		Estimate Decimal Differences 2
		Pyramid Puzzles 2
		Problems: Multiply and Divide
6N3b multiply 2- and 3-digit numbers by	Multiply and Divide	Long Multiplication
a 2-digit number	Multiply and Divide	Grid Methods 2
		Multiply: 2-Digit Number, Regroup
6N3c divide 3-digit numbers by a 2-digit number	Multiply and Divide	Divide: 2-Digit Divisor, Remainder



Expectation	Topic	Activity			
Using Number Skills: Calculate using me	ntal and written methods (Continue	ed)			
6N3d add or subtract across zero using a number line, e.g3 + 5, 4 - 6 🍫	Add and Subtract	Magic Symbols 2			
Using Number Skills: Estimate and check	Using Number Skills: Estimate and check				
6N4a check answers using inverse operations	Add and Subtract	Magic Symbols 2 Missing Numbers: Variables Estimate Decimal Sums 2 Estimate Decimal Differences 2 Pyramid Puzzles 2			
6N4b estimate by rounding to the nearest 10, 100, 1 000 or whole number	Add and Subtract	Estimate Sums Estimate Differences Estimate Decimal Sums 2 Estimate Decimal Differences 2			
	Whole Numbers	Rounding Numbers			
	Decimal Numbers	Rounding Decimals			
Using Number Skills: Manage money 6N5a use the terms profit and loss in buying and selling activities and make calculations for this					
6N5b understand the advantages and disadvantages of using bank accounts					
6N5c make comparisons between prices and understand which is best value for money	Measurement	Best Buy			
Using Measuring Skills: Length, weight/mass, capacity					
6M1a read and interpret scales or divisions on a range of measuring instruments					
6M1b make estimates of length, weight/mass and capacity based on knowledge of the size of real-life objects, recognising the appropriateness of units in different contexts					



Expectation	Topic	Activity			
Using Measuring Skills: Length, weight/n	·				
6M1c record measurements in different ways, e.g. 1.3kg = 1kg 300g	Measurement	Kilogram Conversions			
		Mililitres and Litres			
		Convertin cm and mm			
		Inches, Feet, Yards			
6M1d use the language of imperial units in daily use, e.g. miles, pints	Measurement	Inches, Feet, Yards			
Using Measuring Skills: Time	Using Measuring Skills: Time				
6M2a use and interpret timetables and schedules to plan events and activities	Measurement	Using Timetables			
and make calculations as part of the planning process		Time Mentals			
6M2b estimate how long a journey takes					
6M2c time events in minutes and seconds to the nearest tenth of a second					
6M2d convert between standard units of time �					
6M2e estimate the length of time everyday activities take to complete with increasing accuracy					
Using Measuring Skills: Temperature					
6M3a measure and record temperatures involving positive and negative readings					
6M3b calculate temperature differences, including those involving temperature rise and fall across 0°C					
Using Measuring Skills: Area and volume	, Angle and position				
6M4a calculate the area of squares and rectangles	Space	Area: Squares and Rectangles 2			
6M4b recognise reflex angles ❖	Shape	Angles in a Revolution			
		Measuring Angles			
6M4c draw accurately and measure acute and obtuse angles in multiples of 5 degrees �					
6M4d calculate a missing angle within a	Shape	Angle Measures in a Triangle			
right angle, on a s		Measuring Angles			



Expectation	Topic	Activity
Using Measuring Skills:		
6M4e use grid references to specify location	Space	Coordinate Graphs: 1st Quadrant
Using Geometry Skills: Shape		
6G1a recognise tetrahedra and square based pyramids �		
6G1b recognise and sketch different types of quadrilaterals *		
6G1c explore the tessellation of different shapes �		
6G1d identify a net of a cube 🏻 🌣	Shape	Nets
Using Geometry Skills: Construction		
6G2a draw cubes and cuboids on isometric paper		
6G2b draw nets of cubes on square paper		
Using Geometry Skills: Movement		
6G3a find all the lines of symmetry for a given shape 🌣		
6G3b identify rotational symmetry of shapes �	Shape	Rotational Symmetry of Shapes
6G3c identify symmetrical properties of regular polygons *	Shape	Symmetry or Not?
Using Algebra Skills: Number Sequences		
6A1a find the term to term rule for ascending and descending sequences, e.g. 3, 7, 11, 15 add 4	Patterns and Relationships	Increasing Patterns Decreasing Patterns Pattern Rules and Tables
6A1b generate a sequence given the first term and the term to term rule �		
6A1c consider spatial patterns, e.g. square numbers І		
Using Algebra Skills: Expressions and for	mulae	
explore general statements through practical activities, e.g. that a + a + a = 3a, 3 x a = 3a and a + a + a + b + b = 3a + 2b �		



Expectation	Topic	Activity		
Using Algebra Skills: Expressions and formulae (Continued)				
6A2b simplify expressions involving the addition of one variable, e.g. 5t + 3t = 8t				
Using Algebra Skills: Functions and graphs				
6A3a express output generated from one step function machines using algebra				
6A3b identify the coordinates of a missing point from a regular shape				
6A3c refer to the x axis and the y axis				
Using Algebra Skills: Equalities and inequalities				
6A4a construct and solve one step equations with whole number solutions				
6A4b list numbers between two points using the terminology 'less than or equal to' and 'greater than or equal to'				



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