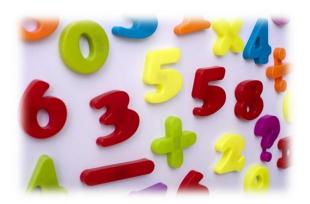


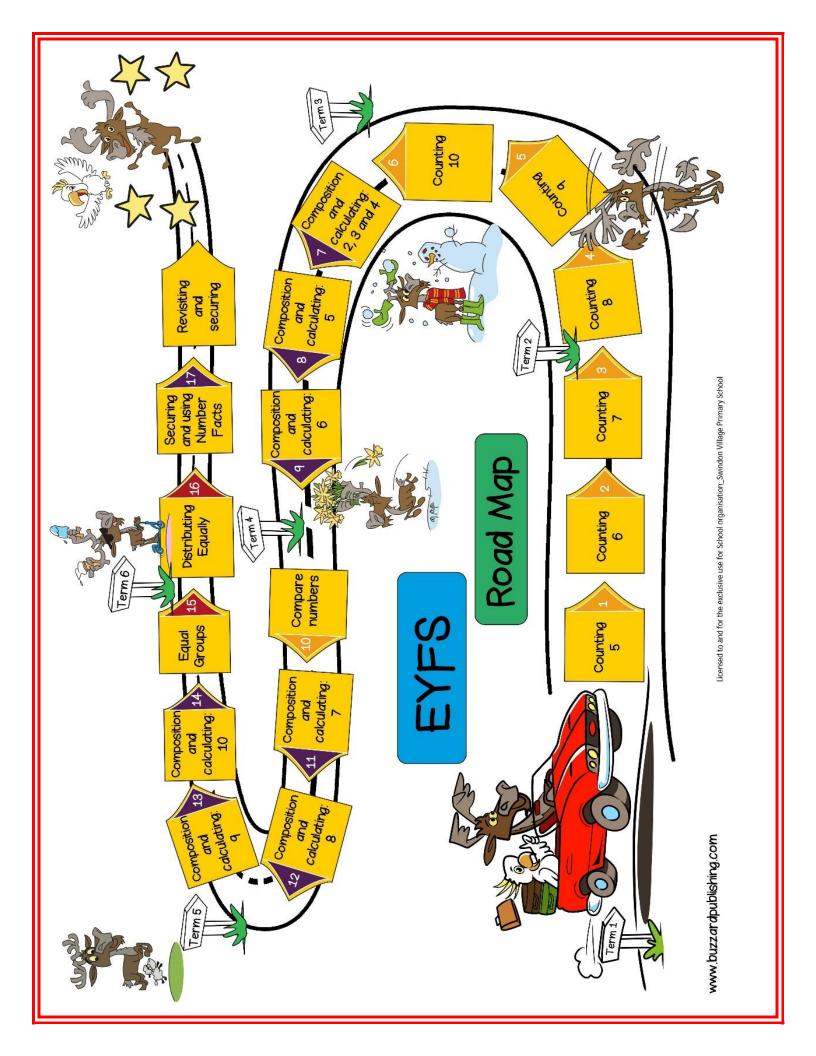
Swindon Village Primary School

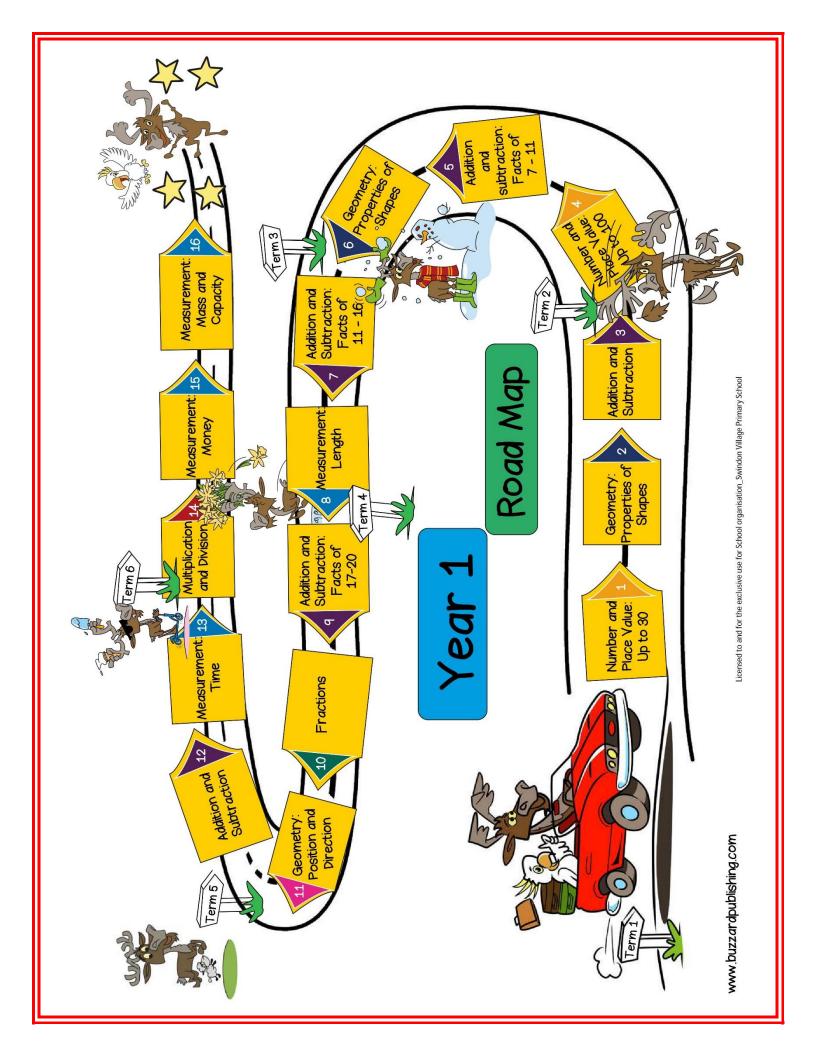


Maths Curriculum

Whole School Overview

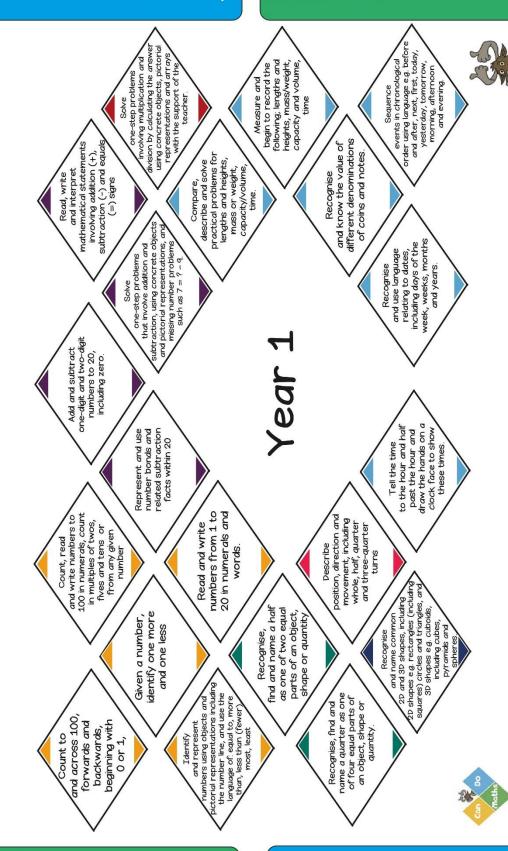
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Baseline assessment	Counting 7	Composition of 2, 3	Compare numbers (1	Composition of 9	Distributing Equally
L/13	Choral counting Counting songs	(2weeks) Counting 8	and 4. Calculating within 4 (2 wks)	wk) Composition of 7 and	and calculating within 9 (2 weeks)	(1 week)
Number	Counting 5 (2 weeks)	(2 weeks)	Composition of 5 and	calculating within 7	Composition of 10	Securing and Using
	Counting 6 (2 weeks)	Counting 8	calculating within 5 (2 wks)	(2 weeks)	and calculating within 10 (2 weeks)	Number Facts (5 weeks)
		(2 weeks) Counting 10	Composition of 6 and	Composition of 8 and calculating within 8	Equal Groups (2	Extra problem
		(1 week)	calculating within 6 (2	(2 weeks)	weeks)	solving and revisit of
			wks)			areas identified
			Compare numbers (1 wk)			after assessment.
Shape, Space	Position and shape	Length, weight,	Repeated patterns,	Counting including	Times, events,	Revisiting based on
and Measures		capacity and	shapes and colours	beyond 10 Exploring	making connections	assessment
		volume		patterns.		
Year 1	Number and Place	Number and place value up to 100	Addition and Subtraction facts 11-	Addition and Subtraction facts 17-	Addition and Subtraction	Multiplication and Division
	Value: Up to 30 Geometry:	Addition and	16	20	Measurement: Time	Measurement:
	Properties of Shapes	Subtraction facts	Measurement: Length	Fractions		Money
	Addition and	7-10		Geometry: position		Measurement: Mass
	Subtraction	Geometry: properties of		and direction		and Capacity
		shape				
Year 2	Number and Place	Subtraction	Multiplication and	Fractions	Statistics	SECURE
	Value	Geometry:	Division (Times Tables)	Measurement: Time Measurement:	Measurement:	Place Value Addition and
	Geometry: Properties of Shapes	Properties of Shapes	Measurement: Length and Mass	Money	Capacity and Temperature	Subtraction
	Addition	Multiplication and	aria iviass	Wiency	remperature	Multiplication and
		Division				Division
		Geometry Position and Direction				
Vaca 2	Number and Place	Multiplication and	Fractions	Multiplication and	Fractions:	Measurement:
Year 3	Value to 1000	Division: Times	Addition: written	Division	Calculating	Length, Mass and
	Geometry:	Tables	methods	Measurement:	Measurement: Time	Capacity
	properties of shape	Addition: mental methods	Subtraction: written methods	Money		Geometry: Properties of shape
		Subtraction:	methods			(angles)
		mental methods				Statistics
Year 4	Number and Place	Multiplication and	Multiplication and	Multiplication and	Decimals	Decimals: Addition
	Value Geometry:	Division: including Multiplication	Division: including Multiplication Tables	Division Geometry: Angles	Fractions	and Subtraction Measurement: Time
	Properties of Shapes	Tables	Addition and	Geoffietry. Arigies		Measurement: Area
		Addition: Mental	Subtraction: Written			and Periemter
		Methods	Methods			Geometry: Position
		Subtraction: Mental Methods				and Direction Statistics
Year 5	Number and Place	Addition and	Multiplication and	Fractions, Decimals,	Fractions:	Measurement: Area
_ / Cai 3	Value	Subtraction	Division: Written	and Percentages	Calculating	and Volume
	Decimals Geometry:	Multiplication and Division: Powers of	Methods Geometry: Position	Measurement: Length, Mass, and		Geometry: Properties of Shapes
	Properties of Shapes	10	and Direction	Capacity		(Angles) Geometry:
		Multiplication and				Properties of Shapes
		Division: Properties of Number				Statistics
Voor 6	Number and Place	Fractions, decimals	Fractions: calculating	Ratio and proportion	Statistics	SECURE
Year 6	Value	and percentages		Measurement:	Targeted revision	Fractions, decimals
	Multiplication and	Geometry:		converting units	for SATs	and percentages
	Division Addition,	Properties of Shapes Angles		Measurement:area and volume		Algebra Ratio and
	Subtraction,	Addition,		Algebra		Proportion
	Multiplication and	Subtraction,		_		
	division	Multiplication and				
	Geometry:Position and Direction	division				
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Fluency

Mathematical Mindsets



Solving Problems

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Mathematical Habits

Fluency

Mathematical Mindsets

yesterday, tomorrow,

morning, afternoon and evening.

and years.

clock face to show these times.

including cubes, pyramids and

Mathematical Habits

events in chronological events in chronological order using language e.g. befo and after, next, first, today, using concrete objects, pictor representations and array one-step problems involving multiplication and following; lengths and heights, mass/weight division by calculating the an begin to record the capacity and volume with the support of the Measure and teacher Solve different denominations and interpret mathematical statements subtraction (-) and equals (=) signs and know the value of describe and solve practical problems for lengths and heights, involving addition (+), of coins and notes mass or weight, capacity/volume Recognise Read, write Compare, subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? - 9. relating to dates, including days of the week, weeks, months one-step problems that involve addition and and use language Recognise Solve Term 1 one-digit and two-digit Add and subtract numbers to 20, including zero. number bonds and related subtraction facts within 20 draw the hands on a to the hour and half Represent and use past the hour and Tell the time 20 in numerals and 100 in numerals, count numbers from 1 to movement, including whole, half, quarter and three-quarter position, direction and and write numbers to in multiples of twos, Read and write fives and tens or from any given Count, read Describe words. number turns 2D shapes e.g. rectangles (including squares) circles and triangles, and 3D shapes e.g. cubolds, 2D and 3D shapes, including find and name a half as one of two equal identify one more parts of an object Given a number, and name common shape or quantity and one less Recognise, Recognise ctorial representations including the number line, and use the name a quarter as one of four equal parts of numbers using objects and language of: equal to, more than, less than (fewer) Recognise, find and an object, shape or and across 100, forwards and beginning with and represent backwards, quantity. 0 or 1, Count to most, least Identify

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Fluency

Mathematical Mindsets

events in chronological events in chronological order using language e.g. befo and after, next, first, today,

yesterday, tomorrow,

relating to dates, including days of the week, weeks, months

draw the hands on a to the hour and half

2D shapes e.g. rectangles (includin squares) circles and triangles, and 3D shapes e.g. cuboids, including cubes, 2D and 3D shapes, including

Mathematical Habits

pyramids and

and name common

Tell the time

clock face to show these times. past the hour and

and years.

and use language

morning, afternoon and evening.

using concrete objects, pictor representations and array one-step problems involving multiplication and following; lengths and heights, mass/weight division by calculating the an begin to record the capacity and volume with the support of the Measure and teacher Solve different denominations and interpret mathematical statements subtraction (-) and equals (=) signs and know the value of describe and solve practical problems for lengths and heights, involving addition (+), of coins and notes mass or weight, capacity/volume Recognise Read, write Compare, subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? - 9. one-step problems that involve addition and Recognise Solve Term 2 one-digit and two-digit numbers to 20, Add and subtract including zero. number bonds and related subtraction facts within 20 Represent and use 100 in numerals, count numbers from 1 to 20 in numerals and movement, including whole, half, quarter and three-quarter position, direction and and write numbers to in multiples of twos, Read and write fives and tens or from any given Count, read Describe words. number turns find and name a half as one of two equal identify one more parts of an object Given a number, shape or quantity and one less Recognise, Recognise ctorial representations including the number line, and use the name a quarter as one of four equal parts of numbers using objects and language of: equal to, more than, less than (fewer) Recognise, find and an object, shape or and across 100, forwards and beginning with and represent backwards, quantity. 0 or 1, Count to most, least Identify

Fluency

Mathematical Mindsets

following; lengths and heights, mass/weight, using concrete objects, picto begin to record the capacity and volume with the support of the ision by calculating the representations and ar Measure and time involving addition (+), subtraction (-) and equals (=) signs mathematical statements practical problems for lengths and heights, describe and solve mass or weight, capacity/volume, and interpret Read, write Compare, time. subtraction, using concrete objects and pictorial representations, and missing number problems that involve addition and one-step problems such as 7 = 9Solve one-digit and two-digit numbers to 20, including zero. Add and subtract related subtraction Represent and use number bonds and facts within 20 100 in numerals, count in multiples of twos, fives and tens or numbers from 1 to 20 in numerals and and write numbers to Read and write from any given Count, read words number find and name a half as one of two equal identify one more Given a number, parts of an object shape or quantity and one less Recognise, pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer) most, least and represent and across 100 beginning with forwards and backwards, Count to Identify 0 or 1,

order using language e.g. befor and after, next, first, today, yesterday, tomorrow, morning, afternoon different denominations and know the value of of coins and notes Recognise including days of the week, weeks, months and use language relating to dates, Recognise and years. Term 3

to the hour and half past the hour and draw the hands on a

2D and 3D shapes, including 2D shapes and 3D shapes e.g. rectangles (including squares) circles and tringles, and 3D shapes e.g. cuboids, including cubes,

Mathematical Habits

pyramids and

and name common

Tell the time

position, direction and movement, including whole, half, quarter

name a quarter as one of four equal parts of an object, shape or

quantity.

Recognise, find and

Describe

and three-quarter

turns

clock face to show

these times

Sequence



Fluency

Mathematical Mindsets

following; lengths and heights, mass/weight, using concrete objects, picto with the support of the capacity and volun order using language e.g. and after, next, first, t ision by calculating the representations and ar different denominations involving addition (+), subtraction (-) and equals (=) signs and know the value of mathematical statements practical problems for of coins and notes lengths and heights, describe and solve mass or weight, and interpret capacity/volume Recognise Read, write subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = 7 - 9. and use language relating to dates, including days of the week, weeks, months that involve addition and one-step problems Recognise Solve Term 4 one-digit and two-digit numbers to 20, including zero. Add and subtract to the hour and half past the hour and draw the hands on a related subtraction Represent and use number bonds and facts within 20 100 in numerals, count in multiples of twos, fives and tens or numbers from 1 to 20 in numerals and position, direction and movement, including whole, half, quarter and write numbers to Read and write and three-quarter from any given Count, read Describe words number turns 2D and 3D shapes, including 2D shapes e.g. rectangles (including squares) circles and triangles, and 3D shapes e.g. cuboids, including cubes, find and name a half as one of two equal identify one more parts of an object, Given a number, shape or quantity and name common and one less Recognise, pictorial representations including the number line, and use the language of equal to, more than, less than (fewer) most, least name a quarter as one of four equal parts of an object, shape or umbers using objects and Recognise, find and and across 100 beginning with forwards and backwards, quantity. Count to Identify 0 or 1,

Solving Problems

pyramids and

Mathematical Habits

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Mathematical Mindsets

before

Seguence

Recognise

using concrete objects, picto representations and array following; lengths and heights, mass/weight, begin to record the capacity and volume Involving multiplication are ivision by calculating the ar with the support of th one-step problems Measure and practical problems for involving addition (+), subtraction (-) and equ lengths and heights, describe and solve mass or weight, capacity/volume, and interpret Compare, time. Term 5 one-digit and two-digit numbers to 20, including zero. Add and subtract number bonds and related subtraction facts within 20 Represent and use 100 in numerals, count in multiples of twos, fives and tens or numbers from 1 to 20 in numerals and and write numbers to Read and write from any given Count, read words number find and name a half as one of two equal identify one more Given a number, parts of an object shape or quantity and one less Recognise, and represent humbers using objects and pictorial representations including the number line, and use the language of equal to, more than, less than (fever) most, least and across 100 forwards and beginning with backwards, Count to Identify 0 or 1,

Fluency

order using language e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. events in chronological different denominations and know the value of of coins and notes and use language relating to dates, including days of the week, weeks, months Recognise and years.

to the hour and half past the hour and draw the hands on a

2D and 3D shapes, including 2D shapes as grectardies (including squares) circles and triangles, and 3D shapes e.g. cuboids, including cubes,

Mathematical Habits

pyramids and

and name common

Tell the time

position, direction and movement, including whole, half, quarter

name a quarter as one of four equal parts of an object, shape or Recognise, find and

quantity

Describe

and three-quarter

turns

clock face to show

these times



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Fluency

Mathematical Mindsets

events in chronological

Sequence

morning, afternoon

using concrete objects, pictoria representations and arrays one-step problems involving multiplication and division by calculating the answ begin to record the following, lengths and heights, mass/weight, capacity and volume with the support of the Measure and Solve teacher mathematical statements involving addition (+), subtraction (-) and equals practical problems for lengths and heights, describe and solve and interpret mass or weight capacity/volume Read, write (=) signs Compare, time. one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing anniher problems such as 7 = ? - q. Solve one-digit and two-digit numbers to 20, Year 1 Add and subtract including zero. number bonds and related subtraction Represent and use facts within 20 numbers from 1 to 100 in numerals, count in multiples of twos, 20 in numerals and and write numbers to Read and write fives and tens or from any given Count, read words find and name a half as one of two equal parts of an object, identify one more Given a number, shape or quantity and one less Recognise, ctorial representations including the number line, and use the language of: equal to, more than, less than (fewer) numbers using objects and ind across 100 and represent forwards and beginning with backwards, most, least Count to Identify 0 or 1,

different denominations Recognise Term 6

> position, direction and movement, including whole, half, quarter

> > name a quarter as one of four equal parts of

an object, shape or

quantity.

Recognise, find and

Describe

and three-quarter

turns

and know the value of

Recognise

of coins and notes.

order using language e.g. before and after, next, first, today, yesterday, tomorrow, week, weeks, months including days of the and use language relating to dates, and years.

> draw the hands on a to the hour and half past the hour and

2D shapes e.g. rectangles (including squares) circles and triangles, and 3D shapes e.g. cuboids, including cubes, 2D and 3D shapes, including

Mathematical Habits

pyramids and

and name common

Recognise

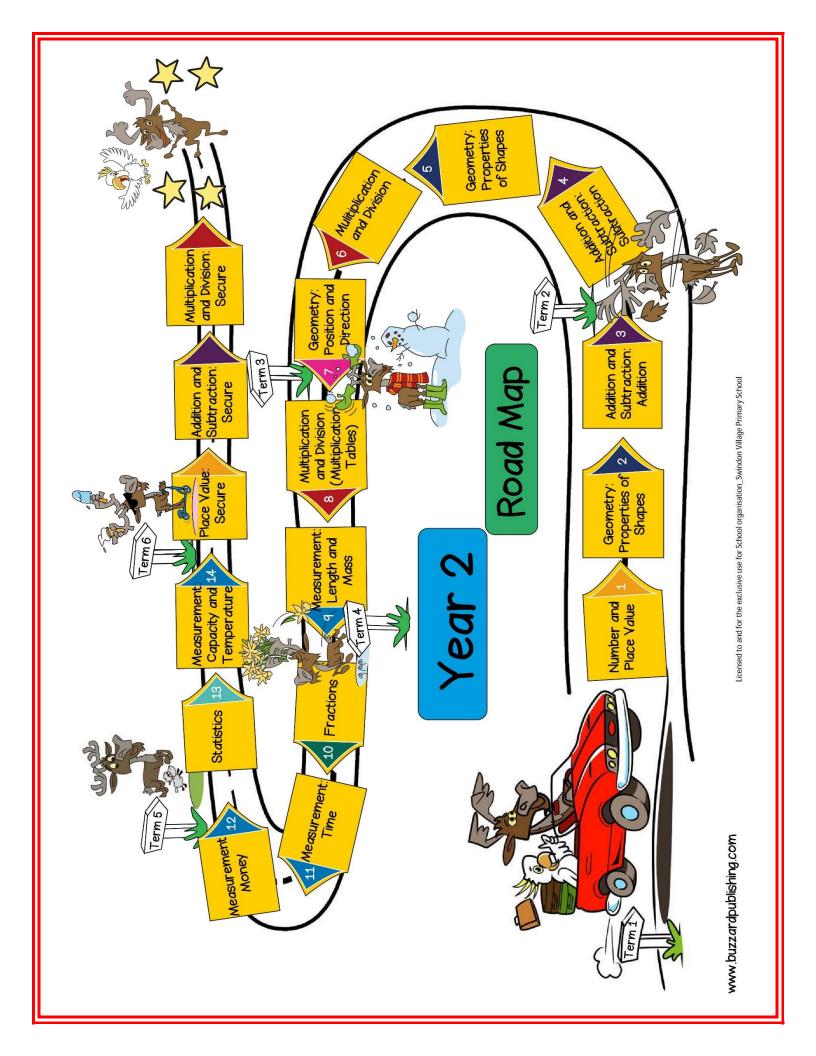
Tell the time

clock face to show

these times



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Fluency

Reasoning

Mathematical Mindsets

Mathematical Habits

minutes, including quarter past/to the hour and draw use multiplication and division facts for the 2, 5 and 10 multiplication tables, including pounds (£) and pence (p); combine amounts to make recognising odd and eve the hands on a clock involving multiplication and division, using materials, array repeated addition, mental meth and multiplication and division for write the time to fiv and use symbols for face to show these times Recall and Tell and numbers Recognise particular value. for multiplication and division within the multiplication tables and write the number of minutes number of hours in a context involving addition and subtraction of money in an hour and the mathematical statements them using the multiplicatio problems in a practical of the same unit, including division and equals Know Solve simple giving change day Calculate volume/capacity and record and subtraction and use this to sequence intervals of order lengths, mass, the results using >, < relationship between addition check calculations and solve any order (commutative) and division of one numbers can be done in multiplication of two Compare and and use the inverse Compare and number by another cannot. and = Show that problems time. of coins that equal the same different combinations properties of 3-D shapes including the number of amounts of money edges, vertices and and describe the Find Identify faces. including the number of sides properties of 2-D shapes, and line symmetry in a (commutative) and subtraction of one number can be done in any order dition of two numbers and describe the rom another cannot vertical line Show that example a circle on a cylinder common 2-D and 3-D find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, fluently, and derive and use surface of 3-D shapes (for shapes and everyday subtraction facts to 20 Compare and sort shape, set of objects or 2-D shapes on the and a triangle on use addition and related facts Recall and Recognise, a pyramid) objects up to 100 quantity Identify the place value of each digit mathematical objects in Write simple fractions e.g. 1/2 of 6=3in a two-digit number value and number combinations of facts to solve quarters and one half and recognise the equivalence of two and arrange patterns and (tens, ones) Use place problems sednences Recognise Order least 100 in numerals estimate numbers using different representations write numbers to at terms of right angles for quarter, half and three-quarter questions by counting the number of objects in each category and including the number sorting the categories represent and and in words answer simple Read and by quantity Identify, line and order numbers from pictograms, tally charts, totalling and comparing categorical data. answer questions about steps of 2, 3, and 5 from 0, and in tens from any and construct simple block diagrams and number, forward and 0 up to 100; use <, > and = signs simple tables Compare Interpret Ask and backward Count in

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Fluency

Mathematical Mindsets

Mathematical Habits

minutes, including quarter past/to the hour and draw the hands on a clock use multiplication and division facts for the 2, 5 and 10 multiplication tables, including and use symbols for pounds (£) and pence (p); combine amounts to make a recognising odd and ev rite the time to fiv face to show Recall and Tell and particular the number of minutes problems in a practical context involving addition and subtraction of money of the same unit, including number of hours in a in an hour and the giving change. day. signs volume/capacity and record the results using >, < relationship between addition and subtraction and use this to check calculations and solve sequence intervals of order lengths, mass, any order (commutative) and division of one number by another numbers can be done in Compare and Compare and and use the inverse missing number and = time of coins that equal the same properties of 3-D shapes, different combinations including the number of amounts of money edges, vertices and ear 2 and describe the Find Identify faces. properties of 2-D shapes, including the number of sides can be done in any order (commutative) and subtraction of one number and line symmetry in a ddition of two numbers from another cannot and describe the vertical line. Show that example a circle on a cylinder common 2-D and 3-D fluently, and derive and use find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or shapes and everyday subtraction facts to 20 Compare and sort 2-D shapes on the surface of 3-D shapes(and a triangle on use addition and related facts up to 100 Recall and a pyramid) Identify the place value of each digit mathematical objects in Write simple fractions e.g. 1/2 of 6 = 3in a two-digit number value and number combinations of facts to solve and recognise the equivalence of two quarters and one hal and arrange patterns and (tens, ones) Use place problems. Recognise sednences Order different representations, least 100 in numerals estimate numbers using write numbers to at questions by counting the number of objects in each category and including the number represent and and in words answer simple Read and orting the cate Identify, sk and line pictograms, tally charts, block diagrams and totalling and comparing categorical data. and order numbers fron nswer questions about and construct simple and in tens from any number, forward and 0 up to 100; use <,> and = signs simple tables Interpret Compare Ask and backward Count in

Solving Problems

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Fluency

Reasoning

Mathematical Mindsets

Mathematical Habits

minutes, including quarter past/to the hour and draw the hands on a clock use multiplication and division facts for the 2, 5 and 10 multiplication tables, including and use symbols for pounds (£) and pence (p); combine amounts to make (recognising odd and eve division, using materials, array repeated addition, mental metho and multiplication and division far including problems in contexts. rite the time to fiv face to show Recall and Tell and particular or multiplication and division within the multiplication tables and write the number of minutes problems in a practical context involving addition and subtraction of money of the same unit, including number of hours in a in an hour and the mathematical statements them using the multiplication division and equals giving change. Calculate day. signs volume/capacity and record relationship between addition and subtraction and use this to check calculations and solve sequence intervals of numbers can be done in any order (commutative) and division of one number by another cannot. order lengths, mass, the results using >, Compare and multiplication of two Compare and and use the inverse missing number and = Show that time. of coins that equal the same properties of 3-D shapes, including the number of different combinations amounts of money edges, vertices and ear 2 and describe the dentify Find faces. properties of 2-D shapes, including the number of sides can be done in any order (commutative) and subtraction of one number and line symmetry in a ddition of two numbers and describe the from another cannot vertical line Show that [dentify example a circle on a cylinder common 2-D and 3-D find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or 2-D shapes on the surface of 3-D shapes(for fluently, and derive and use shapes and everyday subtraction facts to 20 Compare and sort and a triangle on use addition and related facts up to 100 Recall and a pyramid) objects Identify the place value of each digit mathematical objects in Write simple fractions e.g. 1/2 of 6 = 3 value and number in a two-digit number combinations of facts to solve and recognise the equivalence of two quarters and one hal and arrange patterns and Use place (tens, ones) problems saduences estimate numbers using different representations least 100 in numerals write numbers to at questions by counting the number of objects distinguishing between rotation as a and in terms of right angles for quarter, half and in each category and ncluding the numbe represent and and in words answer simple Read and Identify, sk and and order numbers from pictograms, tally charts, block diagrams and totalling and comparing categorical data. swer questions about steps of 2, 3, and 5 from 0, and in tens from any number, forward and and construct simple 0 up to 100; use <,> and = sign simple tables Interpret Compare Ask and backward Count in

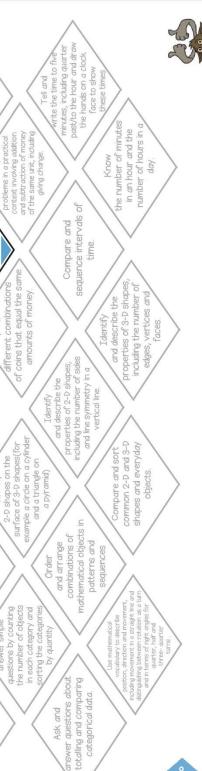
Solving Problems

Mathematical Mindsets

use multiplication and division facts for the 2, 5 and 10 multiplication tables, including pounds (£) and pence (p) combine amounts to make recognising odd and ev division, using materials, array repeated addition, mental meth and multiplication and division for including problems in contexts. and use symbols for Recall and numbers. particular the multiplication tables and write them using the multiplication division and equals mathematical statements multiplication and division Calculate signs volume/capacity and record relationship between addition and subtraction and use this to check calculations and solve missing number order lengths, mass, the results using >, < any order (commutative) numbers can be done in and use the inverse and division of one Compare and number by another Show that Term 3 can be done in any order (commutative) and subtraction of one number from another cannot Show that find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or fluently, and derive and use use addition and subtraction facts to 20 related facts Recall and the place value of each digit in a two-digit number Write simple fractions e.g. 1/2 of 6 = 3 and recegnise the equivalence of two quarters and one half. value and number facts to solve Use place (tens, ones) problems. Recognise estimate numbers using different representations write numbers to at least 100 in numerals including the number represent and and in words Read and Identify, and order numbers from pictograms, tally charts, steps of 2, 3, and 5 from and construct simple block diagrams and , and in tens from any number, forward and 0 up to 100; use <,> and = signs Interpret Compare backward

Fluency

Reasoning



Mathematical Habits

and =

different combinations

Fillo

Identify

questions by counting

tsk and

simple tables

Mathematical Mindsets

pounds (£) and pence (p); combine amounts to make a use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and ev and use symbols for Recall and particular value or multiplication and division division and equa Solve simple Calculate volume/capacity and record and subtraction and use this to check calculations and solve missing number numbers can be done in any order (commutative) and division of one number by another relationship between addition order lengths, mass, the results using >, compare and and use the inverse and = Find Term 4 (commutative) and subtraction of one number can be done in any order Idition of two numbers om another canno Show that find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or fluently, and derive and use subtraction facts to 20 use addition and related facts up to 100 Recognise, Recall and quantity. the place value of each digit fractions e.g. 1/2 of 6=3in a two-digit number value and number and recognise the equivalence of two quarters and one half. facts to solve (tens, ones) problems Recognise Write simple different representations east 100 in numerals estimate numbers using write numbers to at including the number represent and and in words Read and Identify, Ask and and order numbers from pictograms, tally charts, block diagrams and steps of 2, 3, and 5 from 0, and in tens from any and construct simple number, forward and 0 up to 100; use <,> and = signs simple tables Compare Interpret Count in

Fluency

Reasoning

minutes, including quarter past/to the hour and draw the hands on a clock write the time to five face to show Tell and these times the number of minutes number of hours in a in an hour and the context involving addition and subtraction of money of the same unit, including problems in a practical giving change. Know day sequence intervals of Compare and time. of coins that equal the same amounts of money. properties of 3-D shapes, including the number of different combinations edges, vertices and and describe the **Edentify** faces including the number of sides and describe the properties of 2-D shapes, and line symmetry in a vertical line **Edentify** example a circle on a cylindel 2-D shapes on the surface of 3-D shapes(for common 2-D and 3-D shapes and everyday Compare and sort and a triangle on a pyramid) mathematical objects in combinations of patterns and and arrange Order questions by counting the number of objects in each category and sorting the categor answer simple by quantity totalling and comparing answer questions about categorical data. Ask and

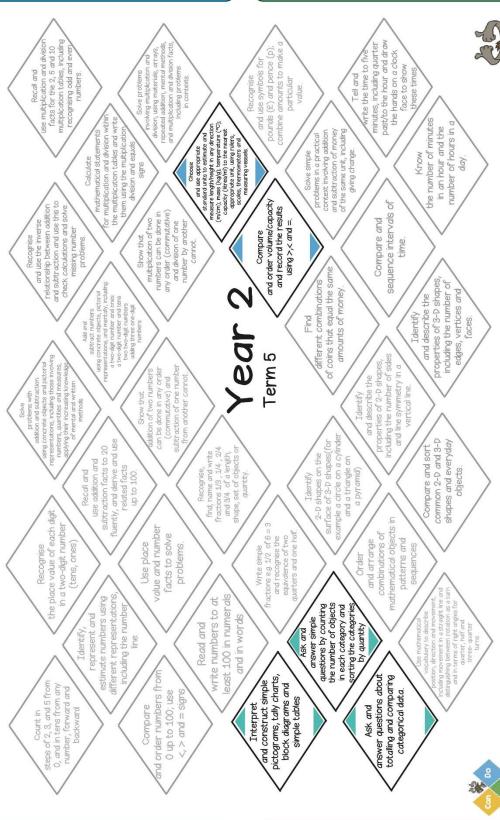
<u>Mathematical Habits</u>

Solving Problems

Mathematical Mindsets

4

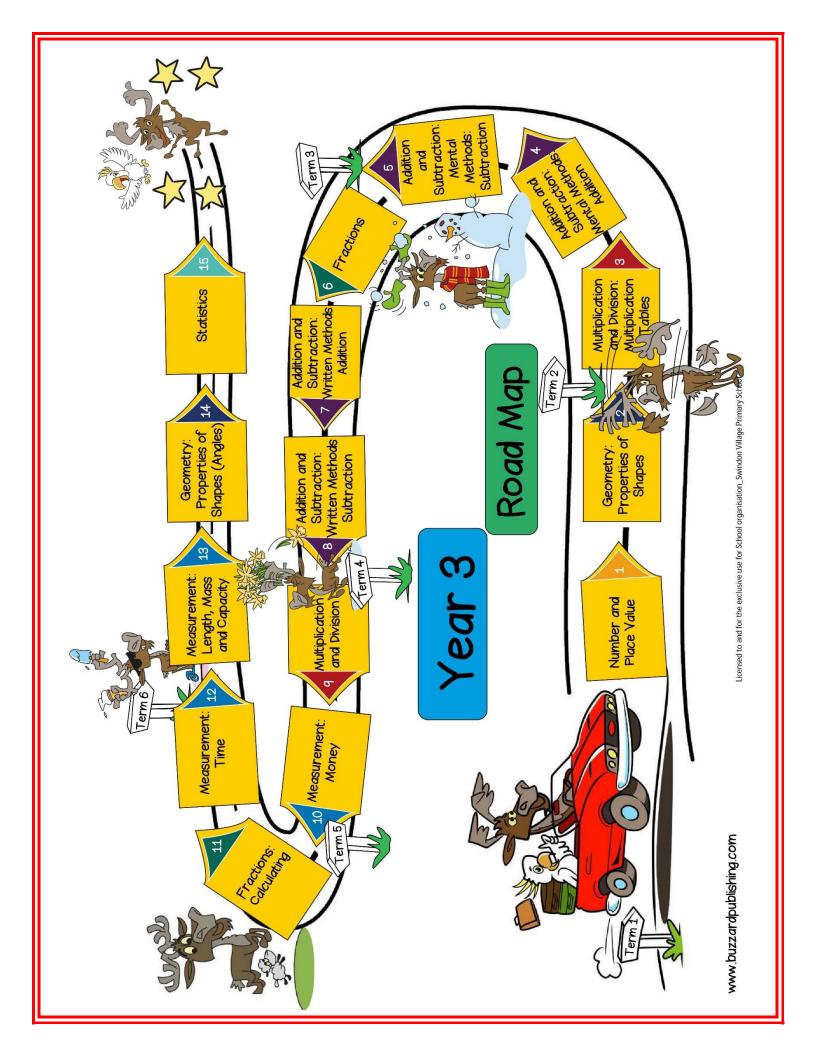
Fluency



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Fluency

Reasoning

Mathematical Mindsets

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Fluency

Reasoning

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division facts for the 3, use multiplication and and 8 multiplication subtract amounts of money to give change, u both £ and p in practi Recall and Add and number of seconds in a minute and the number of days in each month, year the perimeter of simple analogue clock, including using Roman numerals and and leap year 2-hour and 24-ho Know the ell and write 2-D shapes Measure missing number problems, using number facts, place durations of events value, and more complex (m/cm/mm); mass (kg/g); volume/ capacity Measure, compare, add and Solve problems, includin subtract: lengths Compare addition and Term 1 3-D shapes using modelling materials, recognise 3-D shapes in different orientations; and describe Year 3 angles as a property of shape or a description of a turr inverse operations to calculation and use shapes and make the answer to a Recognise eck answers Draw 2-D Estimate them. Add and subtract numbers mentally, including: " a three digit number and ones " a three-digit number and tens with up to three digits, using the formal written methods of columnar Add and hundreds and write numbers up to 1000 in numerals and in horizontal and vertica numbers: unit fractions and non-unit fractions perpendicular and lines and pairs of and use fractions as and present data using bar charts, pictograms and parallel lines. Identify enominators Recognise with small nterpret Read words tables number problems and practical problems the place value of each presented in scaled bar and two-step auestions involving these ideas digit in a three-digit diagrams, equivalent fractions with small number (hundreds and show, using using information olve one-step denominators Recognise tens, ones) Solve narts and pict recognise that tenths arise from dividing an object into 10 problems that involve estimate numbers equal parts and in dividing subtract fractions all of the above. (Fractions) epresentations and down in tenths; with the same represent and using different one-digit numbers denominator within one Add and Identify, and 100; finding 10 or 100 more or less than a given number. and order numbers up to find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small fractions and fractions with the same and order unit denominators Compare Count from Compare 1000

solving Problems

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Mathematical Mindsets

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Solving Problems

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Mathematical Mindsets

division facts for the 3, 4 money to give change, using both £ and p in practical use multiplication and and 8 multiplication subtract amounts of time in terms of seconds, minu hours, use vocabulary such scaling problems and corresponding problems in which in object Recall and Add and number of seconds in a minute and the number of days in each month, year the perimeter of simple analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hou the time from an and leap year Know the 2-D shapes Tell and write Measure problems, including missing number problems, using number facts, place durations of events value, and more compley compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/ capacity (Vml) Compare addition and Term 6 Solve 3-D shapes using modelling materials; recognise 3-D shapes in different orientations; and describe angles as a property of shape or a Year 3 description of a turn inverse operations to calculation and use shapes and make the answer to a Recognise check answers Draw 2-D Estimate rree make three quarters of a turn and four a complete turn; identify subtract numbers mentally, including: " a three digit number and ones " a three-digit number and tens with up to three digits, using the formal written methods of columnar angles, recognise that two right angles make a half-turn, three-digit number an addition and Add and Add and and write numbers up to 1000 in numerals and in norizontal and vertical numbers: unit fractions and non-unit fractions perpendicular and lines and pairs of and use fractions as and present data using bar charts, pictograms and parallel lines lenominators Identify Recognise with small Interpret words Read tables. the place value of each number problems and and two-step questions presented in scaled bar digit in a three-digit charts and pictograms practical problems involving these ideas diagrams, equivalent number (hundreds fractions with small and show, using using information Solve one-step denominators Recognise tens, ones Recognise and tables Count up rendres: and down in tenths: recognise that tenths arise from dividing an object into 10 equal parts and in dividing problems that involve estimate numbers ubtract fractions all of the above. represent and with the same epresentation using different denominator one-digit numbers (Fractions) within one Add and or quantities Identify, whole by 10 Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit and order numbers up to fractions and fractions 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given and order unit fractions with small with the same denominators Compare Compare Count from number 1000

Solving Problems

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and order unit with the same denominator

Compare

and two-step questions using information presented in scaled bar

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number of seconds in a minute and the number of days in each month, year

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(Fractions)

Identify

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division facts for the 3, 4 use multiplication and and 8 multiplication subtract amounts of money to give change, usi both £ and p in practical Recall and tables are connected t m objects. Add and analogue clock, including using Roman numerals 2-D shapes Tell and write the perimeter of alate matnema ents for multip missing number problems, using number facts, place value, and more complex (kg/g); volume/ capacit, Measure, compare, add and subtract: lengths (m/cm/mm); mass problems, includir addition and subtraction Term 2 5-D shapes using modelling materials; recognise 3-D shapes in different Year 3 inverse operations to calculation and use the answer to a shapes and mak check answers Draw 2-Estimate mentally, including: a three digit number and ones a three-digit number and tens subtract numbers with up to three digits, using the formal written methods of columnar a three-digit number and subtract numbers addition and subtraction Add and hundreds Add and and write numbers up to 1000 in numerals and in numbers: unit fractions and non-unit fractions and use fractions as and present data using bar charts, Interpret with small Read Words the place value of each number problems and digit in a three-digit practical problems involving these ideas diagrams, equivalent fractions with small number (hundreds and show, using denominators tens, ones) Recognise Recognise recognise that tenths arise from dividing an object into 10 equal parts and in dividing estimate numbers subtract fractions with the same represent and Count up and down in tenths; using different representation one-digit numbers Identify, Add and or quantities by 10 and order numbers up to of a discrete set of objects: unit fractions and non-unit fractions with small 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a giver Compare 1000

Fluency

Reasoning

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Fluency

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number of seconds in a minute and the number of

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Mathematical Habits

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Fluency

Reasoning

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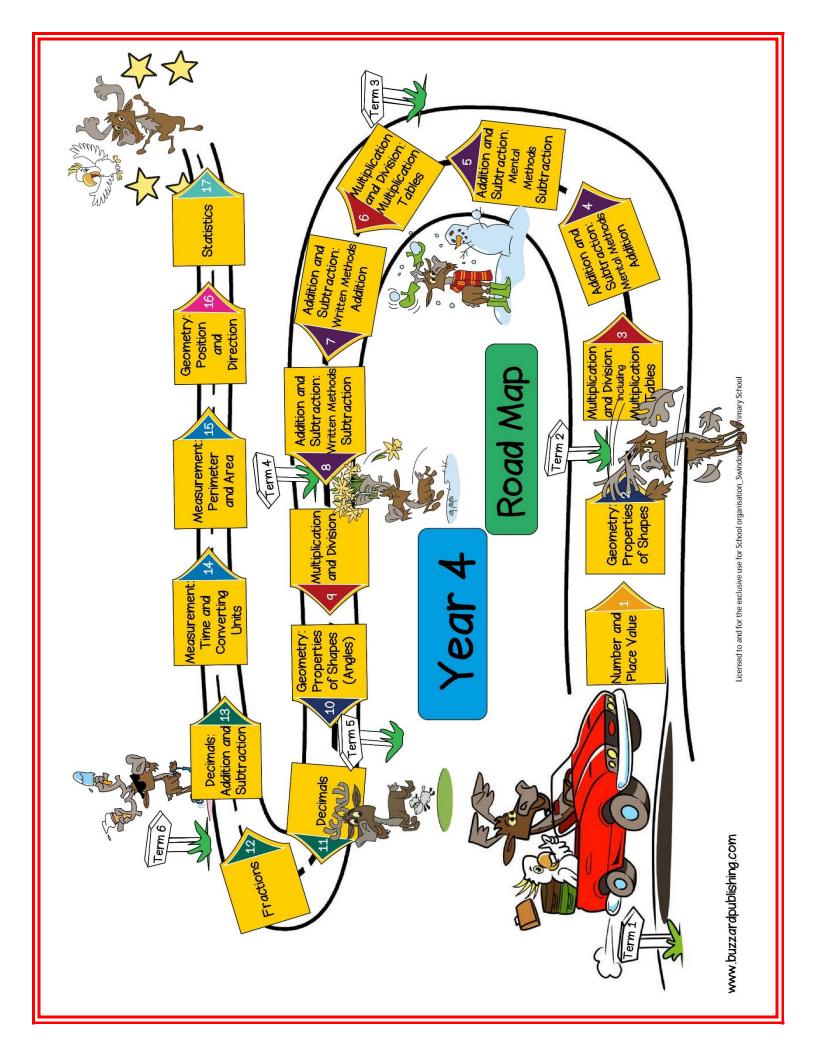
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Mathematical Habits

division facts for the 3,4 Buish use multiplication and and 8 multiplication subtract amounts of money to give change, usir both £ and p in practical scaling problems and correspor problems in which in object are connected to m objects. Recall and tables contexts and division, including po Add and number of seconds in a minute and the number of the perimeter of simple days in each month, year and division using the multiplication tables that they know, includingfor 2-4 numbers times 1-digit numbers, the time from an analogue clock, including using Roman numerals culate mathematical nerts for multiplication from I to XII, and 12-hour and 24-hou Know the Fell and write 2-D shapes Measure missing number problems, using number facts, place durations of events value, and more compley compare, add and subtract: lengths problems, including (m/cm/mm); mass (kg/g); volume/ Compare addition and capacity (Vml materials; recognise 3-D shapes in different orientations; and Shapes and make 3-D shapes using modelling Year 3 angles as a property description of a turn nverse operations to calculation and use of shape or a the answer to a Recognise check answers Draw 2-D describe Estimate a three-digit number and ones a three-digit number and tens a three-digit number and with up to three digits, using the formal written methods of columnar subtract numbers subtract numbers mentally, including: addition and subtraction dentify right Add and Add and hundreds and write numbers up to 1000 in numerals and in horizontal and vertica numbers: unit fractions perpendicular and and non-unit fractions lines and pairs of and use fractions as and present data using bar charts, pictograms and Identify denominators cognise with small Read words the place value of each number problems and and show, using diagrams, equivalent fractions with small and two-step questions presented in scaled bar algit in a three-algit practical problems involving these ideas number (hundreds using information charts and pictogran Solve one-step denominators Recognise tens, ones) and tables Solve from dividing an object into 10 equal parts and in dividing problems that involve ecognise that tenths arise estimate numbers subtract fractions all of the above. with the same represent and Count up nd down in tenths; using different denominator one-digit numbers representation within one Add and Identify, Solve whole by 10 and order numbers up to fractions and fractions of a discrete set of objects: unit fractions and non-unit fractions with small 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a giver and order unit with the same Compare Count from Compare 1000



Fluency

Reasoning

Mathematical Mindsets

angles and compare and converting from hours to minutes, minutes to seconds; order angles up to two shapes by counting area of rectilinear acute and obtuse right angles by problems involving years to months; veeks to day Find the sanares figure with respect to a specific line of shapes, including quadrilaterals triangles, based on a simple symmetric time between analogue and classify geometric units of measure (e.g. kilometre to metre; hou multiplication tables and digital 12 and 24 multiplication and division facts for between different write and covert their properties Complete to 12 × 12 symmetry Compare hour clocks to minute) Conver Read in 2-D shapes presented erived facts to multiply and e mentally, including: multiplying by 0 and 1; dividing by 1; and calculate the perimeter of a rectilinear figure (including squares) lines of symmetry in centimetres and in different orientations Identify metres and commutativity in mental positions on a 2-D grid as coordinates in the first subtract numbers with up to 4 digits using the formal written methods of and use factor pairs Year 4 columnar addition and subtraction where Describe quadrant. calculations. Recognise positions as translations of a given unit to the left/ three-digit numbers by a one-digit number movements between operations to check using formal writter and use inverse answers to a two-digit and right and up/ Describe calculation Estimate Multiply layout ising information presented in ba problems in contexts, deciding comparison, sum and difference problems harts, pictograms, tables and other graphs compare numbers number of tenths or subtraction two-step which operations and and write decimal equivalents of any and draw sides to complete a given specified points methods to use beyond 1000 addition and Order and Recognise hundredths polygon. Bot and continuous data using appropriate graphical methods including bar charts and epresent and estimate numbers using different diagrams, families of common equivalent and write decimal ind present discrete and show, using representations equivalents to Recognise time graphs fractions. Recognise Identify hundredths; recognise that hundredths arise when dividing money problems involving more or less than a any number to the nearest 10, 100 or object by a hundred and simple measure and ractions and decimals two decimal given number wer as ones, te and hundredths Find 1000 Round 1000 a one- or two-digit 10 and 100, identify Solve decimal place to the neares number and practical problems that involve all of the above and with backwards through decimals with one zero to include whole number increasingly large negative numbers Round Count Solve and know that, over the numeral system changed to include the concept of zero and place same number of decimal fractions with the same 25 each digit in a four-digit numbers with the Add and subtract places up to two the place value of 9 decimal places denominator multiples of 6, 7, Count in and 1000 Recognise number value. 2

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<u>Mathematical Habits</u>

Fluency

Reasoning

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shapes by counting area of rectilinear Find the and classify geometric hapes, including quadrilaterals and triangles, based on a simple symmetric figure with respect to a specific line of and digital 12 and 24 division facts for write and covert Complete units of measure to 12 × 12 in 2-D shapes presented in different ines of symmetry orientations Term₁ sitions on a 2-D grid as Year 4 pordinates in the operations to check sitions as translations given unit to the left, by a one-digit number compare numbers equivalents of any and draw sides to complete a given specified points beyond 1000 Order and epresent and estimate numbers using different and write decimal representations. equivalents to Identify, more or less than a any number to the nearest 10, 100 or 1000. given number Find 1000 Round simal place to the near number and practical problems that involve all of the above and with backwards through zero to include increasingly large negative Round numbers positive numbers. Count Solve Count in multiples of 6, 7, 9, 25 and 1000. numerals to 100 and know that, over time, the numeral system changed to include the concept of zero and place ame number of decimal places up to two fractions with the same denominator. the place value of each digit in a four-digit Add and subtract Recognise number

Solving Problems

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Describe

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and difference problems sing information presented in bar charts, pictograms, tables

money problems involving fractions and decimals to two decimal

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numbers with the

Mathematical Habits

Solve

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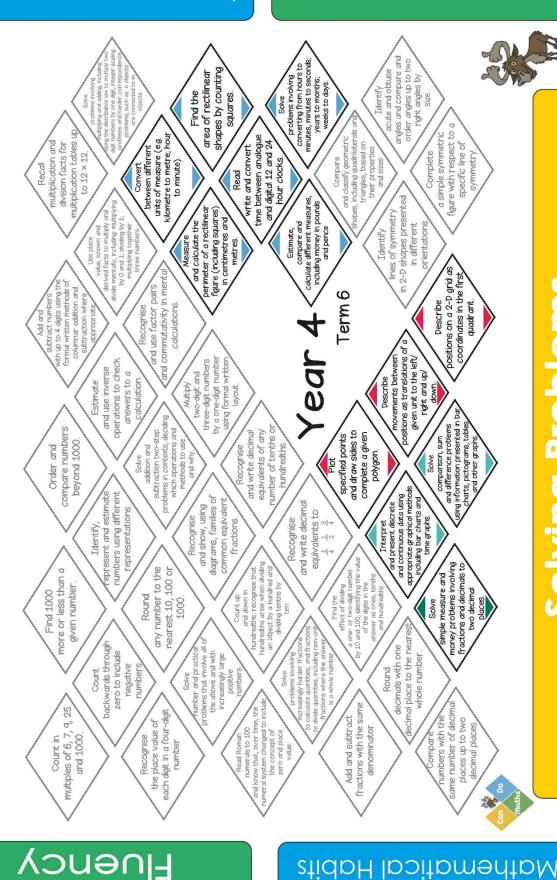
converting from hours to minutes, minutes to seconds; shapes by counting area of rectilinear years to months, Find the sanales time between analogue kilometre to metre; hou units of measure (e.g. multiplication and division facts for multiplication tables and digital 12 and 24 between different write and covert to 12 × 12 hour clocks to minute) Convert Read calculate different measures, ncluding money in pounds erimeter of a rectilinear figure (including squares) n centimetres and and calculate the Estimate, and pence Measure and commutativity in mental with up to 4 digits using the formal written methods of columnar addition and subtraction where and use factor pairs Term 5 calculations. Recognise Add and by a one-digit number using formal written three-digit numbers operations to check and use inverse answers to a two-digit and Estimate calculation Multiph layout problems in contexts, deciding compare numbers subtraction two-step which operations and methods to use number of tenths or equivalents of any and write decimal beyond 1000 addition and hundredths Order and Recognise Solve Plot numbers using different epresent and estimate diagrams, families of common equivalent and write decimal and show, using representations equivalents to Recognise fractions. Recognise Identify. hundreaths arise when dividing an object by a hundred and any number to the more or less than a nearest 10, 100 or hundredths; recognise tha given number and down in Find 1000 Round 1000 increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit number and practical stoblems that involve all of the above and with backwards through zero to include increasingly large negative Count number Solve positive and know that, over time, the numeral system changed to include the concept of zero and place 9.25 each digit in a four-digit the place value of multiples of 6, 7, Recognise Count in and 1000 number Fluency



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Mathematical Mindsets

Reasoning



solving Problems

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specific line of

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2

Mathematical Habits

angles and compare and order angles up to two problems involving shapes by counting acute and obtuse area of rectilinear right angles by minutes, minutes to Find the sanares figure with respect to a a simple symmetric time between analogue Kilometre to metre; hour multiplication tables multiplication and division facts for and digital 12 and 24 write and covert to 12 × 12. units of measure hour clocks to minute) lines of symmetry in 2-D shapes presented value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; verimeter of a rectilinear figure (including squares) and calculate the in different prientations Identify positions on a 2-D grid as ind commutativity in menta coordinates in the first Term 2 subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where Year 4 and use factor pairs Describe cognise ositions as translations of a given unit to the left/ by a one-digit number operations to check three-digit numbers ovements between using formal writter and use inverse answers to a two-digit and right and up/ calculation. Multiphy Estimate subtraction two-step problems in contexts, deciding which operations and methods to use compare numbers number of tenths of equivalents of any and write decimal and draw sides to complete a given specified points beyond 1000 addition and Order and hundredths polygon Plot epresent and estimate numbers using different and show, using diagrams, families of ncluding bar charts and and write decimal common equivalen equivalents to scognise Recognise Identify, noney problems involving fractions and decimals to any number to the Find 1000 more or less than a nearest 10, 100 or imple measure and given number Round cimal place to the near problems that involve all of backwards through decimals with one the above and with increasingly large zero to include whole number Round numbers with the same number of decimal places up to two and know that, over time, the numeral system changed to fractions with the same 25 the place value of each digit in a four-digit Count in multiples of 6, 7, 9, 2 and 1000. Add and subtract numerals to 100 Recognise ompare

Fluency

Mathematical Mindsets

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Mathematical Habits

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Solving Proble

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Fluency

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Mathematical Habits

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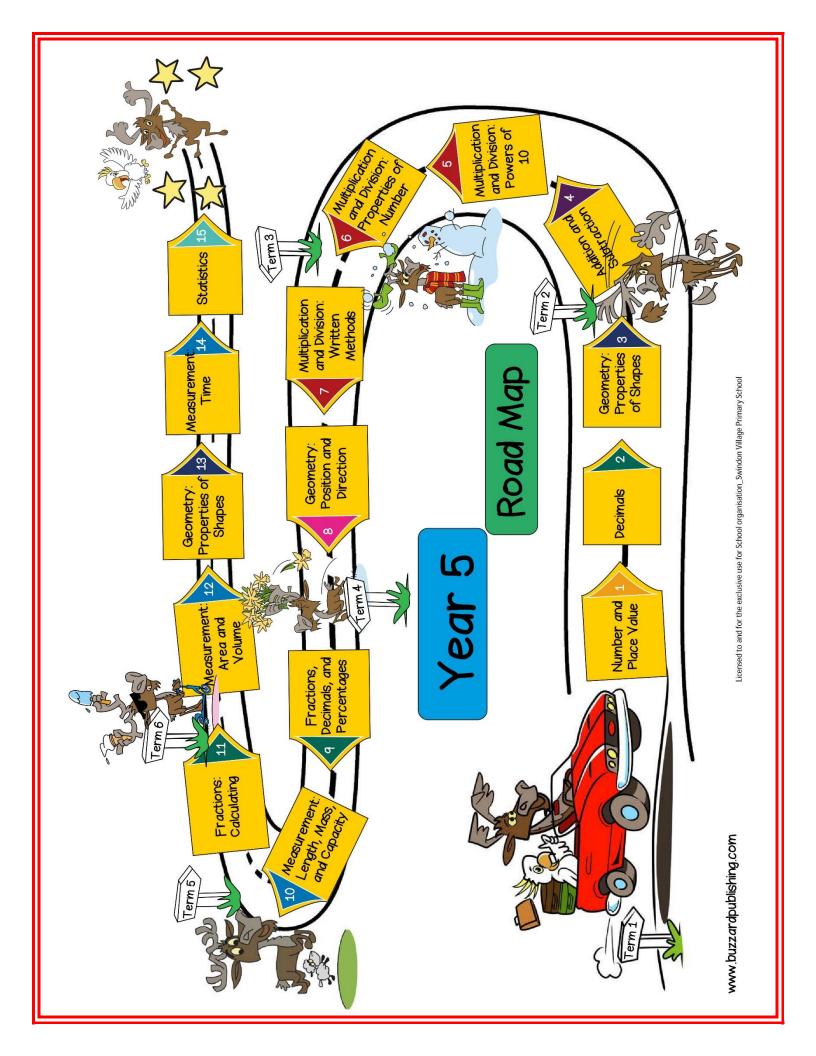
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angles and compare and order angles up to two converting from hours to minutes, minutes to seconds shapes by counting acute and obtuse area of rectilinear Find the time between analogue napes, including quadrilater multiplication tables and digital 12 and 24 division facts for detween different write and covert units of measure (kilometre to metre; to 12 × 12 to minute) hour clocks value, known and derived facts to multiply and ride mentally, including: multiplying by 0 and 1; dividing by 1; in 2-D shapes presented in different and calculate the figure (including squares) ines of symmetry n centimetres and Identify and commutativity in menta subtract numbers with up to 4 digits using the formal written methods o Year 4 and use factor pairs calculations Add and ositions as translations of a three-digit numbers by a one-digit number using formal written given unit to the left, operations to check Describe and use inverse answers to a two-digit and right and up/ Estimate calculation layout compare numbers number of tenths or and write decimal equivalents of any and draw sides to complete a given specified points beyond 1000 addition and Order and Recognise hundreaths Solve polygon Plot numbers using different epresent and estimate diagrams, families of and write decimal and show, using common equivalen representations equivalents to Recognise Recognise fractions Identify, 40 any number to the nearest 10, 100 or 1000. more or less than a given number Find 1000 Round cimal place to the neares number and practical problems that involve all of the above and with increasingly large backwards through decimals with one zero to include whole number negative Round number fractions with the same each digit in a four-digit Add and subtract the place value of 0 numerals to 100 multiples of 6, 7, 9 and 1000. denominator Recognise Count in number

Solving Problems



Fluency

Reasoning

Mathematical Mindsets

use square numbers and cube numbers, and the notation for squared volume (e.g. using 1 cm³ blocks to build cuboids including cubes)) and capacity units and common imperior units such as inches, pounds and Recognise and method, including multiplication for tw and use approxim quivalences between and cubec Estimate perimeter of composite rectilinear shapes in centimetres and involving converting between units of whether a number up to 100 is prime and recall prime numbers up to 19. Solve problems and calculate the involving multiplication livision including using Establish time metres. and division different units of metric numbers and those involving decimals by 10,100 and 1000. Convert between four operations to solve problems involv measure (e.g. length, in volume, money) using de and divide whole measure Multiply Year 5 3-D shapes, including cubes and other cuboids, from 2-D prime numbers, prime factors and composite use the vocabulary of representations Identify (non-prime) problems in contexts, deciding which operations and methods to use estimate and compare e measured in degree including scaling by simple fractions and problems involving simple multiplication and division acute, obtuse and subtraction multi-step and divide numbers mentally drawing upon known facts Know angles reflex angles Solve addition and Multiply one whole turn, angles at a point on a straight line and $\frac{1}{2}$ calculations and determine, in and denominators that are multiples of the same with the same denominato the context of a problem check answers to subtract fractions angles and measure them angles at a point an Draw given Use rounding Add and in degrees number a turn, other subtract whole numbers with more than 4 digits, including using whose denominators are irregular polygons based on reasoning about equal properties of a rectangle to deduce related facts ar ind missing lengths and etween regular and and order fractions all multiples of the sides and angles formal written same number Distinguish methods Use the given fraction, represented visually, including tenths the nearest whole number name and write aquivalent fractions of a read and interpret information in tables, with two decimal places Subtract numbers ncluding timetables increasingly large and to one decimal Round decimals mentally with and hundredthe Complete, Add and numbers. place. problems using information presented in a forwards or backwards in steps of powers of 10 for numerals to 1000 and recognise years mixed numbers by whole up to three decimal any given number up to numbers, supported by materials and sum and difference involving number proper fractions and Solve problems Solve comparisor written in Roman Read Roman line graph. numerals. Multiply places diagrams Count and relate them to tenths, problems and practical nundreaths and decima problems that involve context, count forwards an backwards with positive an negative whole numbers, and use thousandths all of the above Solve number equivalents compare numbers with write, order and compare numbers to at least 1 000 00 and determine the value of each digit 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 decimal numbers as up to three decimal write, order and Read and write number up to fractions Round any Read, places. Read,

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<u>Mathematical Habits</u>

Mathematical Mindsets

volume (e.g. using 1 cm³ blocks to build cuboids (including cubes)) and capacity

ire measured in degree estimate and compare acute, obtuse and

> irregular polygons based on reasoning about equal sides and angles

sum and difference

Mathematical Habits

line graph

reflex angles

Know angles

one whole turn, angles at a point on a straight line and %

involving number up to three decimal

compare numbers with

up to three decima write, order and

places.

Solve problems

ncluding cubes and other cuboids, from 2-D

angles and measure them in degrees. Draw given

read and interpret information in tables,

ncluding timetables

involving converting

time

Solve problems between units of

Term 2

Use square numbers and cube numbers, and the notation for squared and cubed Recognise and involving multplication and division including using their knowledge of factors and multples, squares and cubes. and calculate the perimeter of composite rectilinear shapes in whether a number up to 100 is prime and recall prime numbers Establish up to 19. different units of metric numbers and those involving decimals by 10,100 and 1000. convert between and divide whole use the vocabulary of prime factors and composite (non-prime) subtraction multi-step problems in contexts, deciding which operations and and divide numbers mentally drawing upon known facts methods to use Multiply to check answers to calculations and determine, in the context of a problem levels of accuracy multiples of the same subtract whole numbers with more than 4 digits, including using formal written the nearest whole number and to one decimal subtract numbers increasingly large mentally with Add and numbers Read Roman numerals to 1000 and recognise years proper fractions and mixed numbers by whole numbers, supported by materials and written in Romar forwards or back in steps of powers any given number and relate them to tenths, problems and practical nundreaths and decin Solve number all of the abc Read and write decimal numbers as fractions Round any number up to 1 000 000 to the nearest 10, 100, 1000, write, order and comi nbers to at least 1 OC nd determine the valu

Fluency



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Fluency

Reasoning

Mathematical Mindsets

involving converting 3-D shapes, including cubes and other cuboids, from 2-D representations angles and measure them in degrees. Round decimals with two decimal places to the nearest whole number and to one decimal place. forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Read Roman rumerals to 1000 and recognise years written in Roman involving number up to three decimal Solve problems numerals. places. problems and practical problems that involve all of the above and use thousandths and relate them to tenths, undreaths and decima Solve number write, order and compare numbers with Read and write decimal numbers as fractions number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 1000 ond vrite, order and compare nbers to at least 1 000 0/ and determine the value of each digit up to three decimal Round any places.

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Mathematical Habits

Mathematical Mindsets

volume (e.g. using 1 blocks to build cubo (including cubes)) a

problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. and divide numbers mentally drawing upon known facts Multiply the nearest whole number Read Roman numerals to 1000 and recognise years written in Roman any given number and relate them to tenths, problems and practical problems that involve hundredths and deciv Read and write decimal numbers as fractions Round any number up to 1 000 000 to the nearest 10, 100, 1000,

Fluency

Term 3

Termination in tables:

properties of a rectangle
frod missing langths and
angles are a point and a point and a point and a converting and are size and are and are an are size and arges.

Term 3

Solve problems
involving converting between units of thine.
Solve problems
involving converting between units of the active, often multiples
and and interpret
angles and angles

Distriguish
on reasoning about equal active, obtuse and compare
angles and angles.

Draw given and including cubes and other colonias, from 2-D

Including timetables.

Including timetables

Solve problems involving number up to three decima

compare numbers with up to three decimal

Mathematical Habits

write, order and



Solving Problems

Huency

Mathematical Mindsets

volume (e.g. using 1 cm³ blocks to build cuboids (including cubes)) and capacity and calculate the perimeter of composite rectilinear shapes in centimetres and metres. olving converting Convert between different units of metric measure and divide whole numbers and those involving decimals by 10,100 and 1000. Year 5 mentally drawing whose denominators are all multiples of the ind order fractions name and write equivalent fractions of a given fraction, represented visually, including tenths and hundreaths the nearest whole number Read Roman numerals to 1000 and recognise years written in Roman involving number up to three decimal Solve problems any given number places. and relate them to tenths problems and practical nundreaths and decil Solve number Read and write decimal numbers as fractions compare numbers with Round any number up to 1 000 000 to the nearest 10, 100, 1000, up to three decima write, order and

Solving Problems

ncluding cubes and other cuboids, from 2-D

angles and measure them in degrees.

Mathematical Habits

Fluency

Mathematical Mindsets

volume (e.g. using 1 cm blocks to build cuboids (including cubes)) and se square numbers and cube numbers, and the equivalences between metra units such as inches Recognise and number using a formal method, including lo multiplication for two pounds and and cube perimeter of composite rectilinear shapes in centimetres and involving converting whether a number up to 100 is prime and recall prime numbers up to 19. Solve problems between units of and calculate the time. solve problems involving mass, volume, money) using decima notation, including different units of metric numbers and those involving decimals by 10,100 and 1000. onvert between whole measure Multiphy prime numbers, prime factors and composite (non-prime) addition and subtraction multi-step problems in contexts, deciding multiplication and division, including scaling by simple fractions and problems and divide numbers which operations and mentally drawing upon known facts Know angles methods to use Multiply Solve subtract fractions with the same denominator and denominators that are multiples of the same calculations and determine, in one whole turn, angles at a point on a straight line and a turn, other multiples Use rounding to check answers to the context of a problem igles at a point ar on suac Add and number Identify whose denominators are numbers with more than properties of a rectangle to deduce related facts an 4 digits, including using formal written wixed numbers and proper fractions and convifind missing lengths and veen regular and and order fractions all multiples of the subtract whole vistinguish Use the Round decimals with two decimal places to the nearest whole number and to one decimal name and write subtract numbers isually, including tenth increasingly large mentally with Add and numbers Identify, Read Roman numerals to 1000 and mixed numbers by whole numbers, supported by materials and up to three decimal any given number up to Solve comparison, sum and difference involving number roper fractions and Solve problems recognise years written in Roman forwards or backwo numerals. diagrams Count Multiply and relate them to tenths, problems and practical context, count forwards and backwards with positive and negative whole numbers, problems that involve and use thousandths hundreaths and decin all of the above Solve number including through equivalents write, order and compare numbers to at least 1 000 000 and determine the value of each digit compare numbers with number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and decimal numbers as up to three decimal write, order and Read and write fractions sound any Read,



including cubes and other cuboids, from 2-D

measure them angles and Draw given

> information in tables, read and interpret

ncluding timetables

in degrees

3-D shapes, Identify

estimate and compare acute, obtuse and ire measured in degree

irregular polygons based

problems using information

which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple

Mathematical Habits

presented in a

line graph

sides and angles

reflex angles

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Huency

Mathematical Mindsets

volume (e.g. using 1 cm³ blocks to build cuboids (including cubes)) and use square numbers and the cube numbers, and the and use approximate equivalences between metriuits and common imperia digits by a one- or two-dig number using a formal writt method, including long notation for square units such as inches, pounds and cognise and and cubeo Estimate Measure and calculate the perimeter of composite rectilinear shapes in involving converting whether a number up to 100 is prime and recall prime numbers up to 19. involving multiplication and division including using their knowledge of factors and between units of Solve problems centimetres and Establish time. solve problems involving measure (e.g. length, mass, volume, money) using decimal notation, including different units of metric numbers and those involving decimals by 10,100 and 1000. Convert between whole measure Multiply and divide Year 5 prime numbers, prime factors and composite Know and use the vocabulary of 3-D shapes, Identify (non-prime) problems in contexts, deciding which operations and ire measured in degrees estimate and compare problems involving multiplication and division, including scaling by simple fractions and problems acute, obtuse and subtraction multi-step and divide numbers mentally drawing upon known facts reflex angles Know angles methods to use addition and Multiply to 4 digits by a one-digit rumber using the formal written method of short division and and denominators that are multiples of the same Use rounding to check answers to calculations and determine, in with the same denominato, one whole turn, angles at a point on a straight line and 1 the context of a problem Draw given Add and of 90° a turn, other properties of a rectangle to deduce related facts and whose denominators are all multiples of the numbers with more than 4 digits, including using irregular polygons based on reasoning about equal find missing lengths and angles. Compare and order fractions between regular and subtract whole sides and angles. formal written same number Distinguish Add and methods Use the given fraction, represented the nearest whole number and to one decimal visually, including tenths subtract numbers with two decimal places increasingly large mentally with and hundreaths Complete, Add and dentify, problems using information presented in a forwards or backwards in steps of powers of 10 for numerals to 1000 and proper fractions and mixed numbers by whole numbers, supported by up to three decimal up to involving number sum and difference Solve problems recognise years written in Roman Solve comparison Read Roman any given number 1 000 000 line graph. numerals. Count and relate them to tenths, problems and practical Interpret negative numbers in intext, count forwards and and use thousandths problems that involve hundredths and decin Solve number all of the abov Recognise equivalents which require knowing antique and declinal equivalents 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a write, order and compare numbers to at least 1 000 000 and determine the value of compare numbers with number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and decimal numbers as up to three decimal write, order and Read and write Round any each digit Read,

Solving Problems

including cubes and other cuboids, from 2-D

angles and measure them

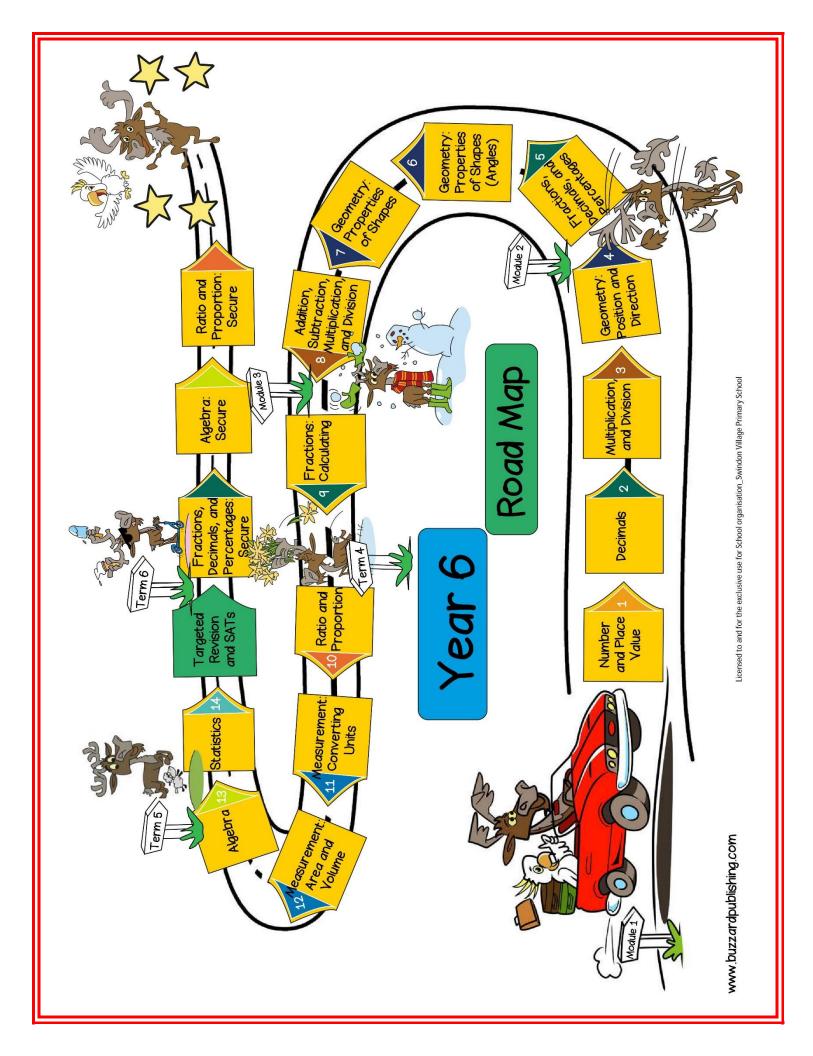
information in tables, including timetables.

read and interpret

Mathematical Habits

in degrees.

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Fluency

Reasoning

Mathematical Mindsets

when it is possible to use formulae for area and volume of possibilities of combinations of two between miles and Enumerate Kilometres Recognise volume of cubes and cusing standard units, in centimetre cubed and metres and extending to variables Convert shapes Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 parallelograms and different perimeters and of numbers that satisfy an equation same areas can have Recognise that shapes with the the area of Find pairs unknowns Calculate triangles with two vice versa. using given dimensions Use simple formulae of two quantities, where missing values can be found by Draw 2-D shapes involving calculation of percentages and the use of percentages for and angles. Solve problems Year 6 describe and build simple 3-D shapes, including making nets. involving similar shapes where the scale factor is number problems algebraically Express missing known or can be found. Solve problems Recognise, involving unequal sharing and grouping, using knowledge of fractions of operations to carry out calculations involving the nowledge of the order number sequences Solve problems four operations Generate and describe linear and multiples Use their ased on their and find u meet at a point, are on a straight line, or are vertically opposite, and find missing angles. and name parts of circles, including radus, diameter and circumference, and know that the dameter is twice the radius fractions by whole subtraction, multiplication d subtraction multi-ste problems in contexts, deciding which operations and methods to involving addition, Divide proper angles where they numbers Solve addition and division problems Solve calculations, including with proper fractions, writing the answer in its coordinate grid (all four multi-digit numbers up to tagits by a two-digit whole numl using the formal written method of long mixed operations and to check answers to positions on the full Perform mental simple pairs of large numbers Use estimation simplest form appropriate degr Multiply Describe quadrants) translate simple shapes on the coordinate plane, and reflect them in and interpret the mean common multiples and divide numbers by 10, 100 and 1000 giving answers common factors, prime numbers. as an average. Draw and Calculate the axes Identify which require answers to be rounded to specified and construct pie charts and line graphs and use these to solve to a Use common actors to simplify fractions, use common multiples to express fractions in the same denomination any whole number to required degree of Solve problems degrees of Interpret accuracy accuracy Round ne-digit numbers with up and to two decimal places by and calculate decimal fraction equivalents action with division Compare and order fractions, including numbers in context, a calculate intervals whole numbers. Use negative for a simple across zero fractions >1 Multiply Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit problems and practical problems that involve all of the above. division methods in cases where the answer dse equivalences between simple fractions, decimals and percentages, including in different subtract fractions with different denominators and mixed numbers, using the concept of equivalent has up to two decimal Solve number Use written Recall and places

solving Problems

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Fluency

Reasoning

Mathematical Mindsets

using given dimension

and angles

describe and build mple 3-D shapes, includir

and interpret the mean

Mathematical Habits

as an average

making nets

Kilometres possibilities when it is po parallelograms and of numbers that satisfy an equation the area of triangles Use simple formulae Year 6 Term 1 number problems Express missing enerate and describe linear subtraction, multiplication and division fractions by whole problems in contexts, deciding which operations nd subtraction multi-ste involving addition, Divide proper and methods to numbers problems Solve Describe positions on the full coordinate grid (all four quadrants). calculations, including with mixed operations and to check answers to calculations and determine, i context of a problem, ar Perform mental large numbers translate simple shapes on the coordinate plane, and reflect them in the axes. common multiples and cimal places and multiply ar divide numbers by 10, 100 and 1000 giving answers common factors, prime numbers Draw and Identify which require answers to be rounded to specified any whole number to required degree of Solve problems degrees of accuracy accuracy Round one-digit numbers with up to two decimal places by Use negative numbers in context, and calculate intervals whole numbers. across zero Multiply order and compare numbers up to 10 000 000 and determine the value of each digit cases where the answer has up to two decimal problems and practical problems that involve division methods in all of the above Use written Solve number places. Read, write



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Fluency

Reasoning

Mathematical Mindsets

and angles

describe and build simple 3-P shapes, including

Thistrate and name parts of orcos, including radus, dometer and orcumference, and know that the dometer is two that the dometer.

and interpret the mean as an average.

Calculate

quadrants)

Mathematical Habits

between miles and when it is possible use formulae for all possibilities of and volume of combinations of Enumerate Kilometres variables Convert Recognise that shapes with the same areas can have different perimeters and of numbers that satisfy an equation with two parallelograms and the area of Calculate Find pairs triangles vice versa. using given dimensions Solve problems involving calculation of percentages and the use of percentages for Draw 2-D shapes Use simple formulae Year 6 Solve problems involving similar shapes where the scale factor is number problems Express missing algebraically. Use their knowledge of the order of operations to carry out calculations involving the four operations number sequences sharing and grouping, I knowledge of fractio Generate and describe linear and multiple angles where they meet at a point, are on a straight line, or are vertically opposite, and find fractions by whole involving addition, subtraction, multiplication Divide proper numbers and division Solve proper fractions, writing the answer in its simplest form Perform mental alculations, including with positions on the full coordinate grid (all four mixed operations and simple pairs of large numbers Multiphy common multiples and common factors, prime numbers Draw and and construct pie charts and line graphs and use these to solve problems. to be rounded to specified actors to simplify fractions; any whole number to required degree of olve problem degrees of Interpret ne-digit numbers with up numbers in context, and calculate intervals to two decimal places by Traction with division and calculate decimal Compare and order fraction equivalents fractions, including fractions >1 Use negative across zero dse equivalences between simple fractions, decimals and percentages, including in different order and compare umbers up to 10 000 000 and determine the value cases where the answer problems and practica problems that involve division methods in all of the above Solve number Recall and Read, write,



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Fluency

Reasoning

Mathematical Mindsets

between miles and possibilities of combinations of tw when it is possible and volume of use formulae for **kilometres** Convert Recognise that shapes with the same areas can have different perimeters and parallelograms and satisfy an equation with two unknowns Find pairs of numbers that the area of Calculate vice versa. triangles using given dimensions and angles. Use simple formulae Draw 2-D shapes Year 6 Term 2 describe and build simple 3-D shapes, including making nets. Solve problems involving similar shapes where the scale factor is known or can be found. number problems algebraically. Express missing Recognise, knowledge of the order of operations to carry out calculations involving the four operations out number sequences sharing and grouping, Generate and describe linear Use their and name parts of rcles, including radius, diameter and circumference, and know that the diameter is twice the radius fractions by whole angles where they meet at a point, are on a straight line, or are vertical opposite, and find missing angles. Divide proper involving addition, numbers Poscribe positions on the full coordinate grid (all four calculations, including with mixed operations and proper fractions, writing the answer in its Perform mental Multiply simple pairs of large numbers common multiples and Identify common factors, as an average prime numbers and interpret the Draw and Interpret and construct pie charts which require answers to be rounded to specified Round Round any whole number to a required degree of Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. and line graphs and use Solve problems fraction with division and calculate decimal fraction equivalents for a simple to two decimal places by Compare and order fractions, including fractions >1 ne-digit numbers with numbers in context, calculate intervals whole numbers Use negative fraction dse equivalences between simple fractions, decimals and percentages, including in different Add and subtract fractions with different denominators division methods in cases where the answer rumbers up to 10 000 000 and determine the value of each digit problems and practical problems that involve nas up to two decil all of the above Use written Recall and

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Fluency

Reasoning

Mathematical Mindsets

possibilities of combinations of use formulae for between miles Convert when it is poss parallelograms and satisfy an equation with two the area of triangles using given dimension and angles. Jse simple formulae Draw 2-D shapes Year 6 Term 3 describe and build simple 3-P shapes, includii number problems algebraically. Use their knowledge of the order of operations to carry out calculations involving the using sharing and grouping, usi knowledge of fractions describe linear number sequences Generate and fractions by whole involving addition, subtraction, multiplication and division Divide proper numbers problems simple pairs of proper fractions, writing the answer in its Describe positions on the full coordinate grid (all four calculations, including with mixed operations and Perform mental simplest form large numbers quadrants) common factors, prime numbers and interpret the r Draw and Round any whole number to a required degree of which require answers to be rounded to specifie and construct pie charts and line graphs and use these to solve e-digit numbers with up Traction with division and calculate decimal fraction equivalents and to two decimal places by compare and order fractions, including fractions >1 numbers in context, o Use negative for a simple order and compare numbers up to 10 000 000 and determine the value of each digit th different denominators and mixed numbers, using the concept of division methods in cases where the answer problems and practical problems that involve nas up to two deci all of the above Solve number Use written Recall and

making nets

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Fluency

Reasoning

Mathematical Mindsets

use formulae for area between miles and possibilities of combinations of two when it is possible t estimate and compare volume of cubes and cub using standard units, inclu centimetre cubed and cu metres and extending to o units Enumerate kilometres Recognise variables Convert Recognise that shapes with the same areas can have afferent perimeters and vice versa. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 of numbers that satisfy an equation with two parallelograms and the area of Find pairs unknowns Calculate triangles using given dimension and angles. Use simple formulae of two quantities, where missing values can be found by Draw 2-D shapes involving calculation of percentages and the use of percentages for Solve problems Year 6 involving similar shapes where the scale factor is known or can be found. number problems algebraically. Express missing Solve problems involving unequal sharing and grouping, using knowledge of fractions and multiples. f operations to carry out alculations involving the number sequences describe linear Solve problems Generate and fractions by whole subtraction, multiplication problems in contexts, Divide proper involving addition, numbers and division Describe positions on the full coordinate grid (all four calculations, including with mixed operations and proper fractions, writing the answer in its Perform mental simple pairs of large number quadrants) common factors, translate simple shapes on the coordinate plane, a reflect them in the axes. prime numbers Draw and which require answers to be rounded to specified Interpret and construct pie charts Round any whole number to a required degree of and line graphs and use solve problems e-digit numbers with up and to two decimal places by fraction with division and calculate decimal fraction equivalents Compare and order fractions, including fractions >1 numbers in context, a Use negative for a simple whole numb order and compare numbers up to 10 000 000 and determine the value of each digit Solve number problems and practical problems that involve cases where the answer Subtract fractions in different denominators and mixed numbers, using the concept of Use written division methods in ias up to two decin all of the above. Recall and

Solving Problem

making nets

and interpret the m

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