Round whole numbers to different degrees of accuracy

Understand and use negative numbers when working in context, such as temperature

Calculate intervals across zero

Read 7-digit numbers in numerals and write in words, including zero as a place holder

Identify and represent 7-digit numbers on a number line

Compare numbers up to 10,000,000

Order numbers up to 10,000,000

Year 6

Unit 1

Number and Place Value

Read 7-digit numbers in words and write using numerals including zero as a place holder

Recognise the value of digits in 7-digit numbers

Represent 7-digit numbers

Term 1

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Year 6

Unit 2

Decimals

Multiply O.t by Ones

Multiply O.th by Ones

Multiply decimals by 1000

Multiply decimals by 100

Multiply decimals by 10

Identify the value of digits in decimal numbers

Divide decimals by 10

Divide decimals by 100

Term 1

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Year 6

Unit 3

Multiplication and Division

Divide a four-digit number by a two-digit number using a formal written method with no remainder

Divide a four-digit number by a two-digit number using a formal written method with a whole number remainder

Divide a four-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction

Divide a four-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places

Divide a three-digit number by a two-digit number using a formal written method with a remainder rounding to two decimal places

Divide a three-digit number by a two-digit number using a formal written method with a remainder expressed as a fraction

Divide a three-digit number by a two-digit number using a formal written method with a whole number remainder

Divide a three-digit number by a two-digit number using a formal written method with no remainder

Multiply a four-digit number by a two-digit number using long multiplication

Identify prime numbers

Find common factors of two numbers

Find common multiples of two numbers



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Carry out a reflection using one of the axes as a mirror line

Draw and translate simple shapes

Year 6

Unit 4

Geometry: Position and Direction

Use coordinates to plot the position of a point in any of the four quadrants

Use coordinates to describe the position of a point in all four quadrants

Term 1

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Maths Club



Calculate decimal equivalents of fifths, eighths and tenths

Know simple fractions and decimal equivalences for 10%, 20%, 25%, 50%, 75%, 100%

Find equivalencies between simple fractions, decimals and percentages

Compare proper fractions, including fractions > 1

Order proper fractions

Order fractions, inlcuding fractions > 1

Year 6

Unit 5

Fractions, Decimals, and Percentages



Use common factors to simplify fractions

Use common multiples to find equivalent fractions

Compare proper fractions



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Find unknown angles in a quadilateral

Find unknown angles in regular polygons

Find unknown angles in an isosceles triangle when only one angle is known

Find unknown angles in a triangle

Find missing angles where they are vertically opposite

Year 6

Unit 6

Geometry: Properties of Shapes (Angles)



Find missing angles where they meet at a point

Find missing angles where they meet on a straight line



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Year 6

Unit 7

Geometry: Properties of Shapes

Draw nets of 3-D shapes

Construct diagrams of 3-D shapes on isometric paper

Know the names and relationships of the parts of a circle

Classify 3-D shapes including cylinders, cones and spheres

Recognise and describe 3-D shapes

Draw 2-D shapes given dimensions and/or angles

Classify 2D shapes using given categories; e.g. number of sides, symmetry

Draw 2-D shapes given angles



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Year 6

Unit 8

Addition, Subtraction, Multiplication, and Division Road Map

Carry out calculations involving a mixture of addition and/or subtraction and indices

Carry out calculations involving a mixture of multiplication and/or division and indices

Carry out calculations involving a mixture of division and addition/subtraction

Carry out calculations involving a mixture of multiplication and addition/subtraction

Carry out calculations involving a mixture of multiplication and division

Carry out calculations involving a mixture of addition and subtraction

Carry out calculations involving all four operations, including brackets







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Year 6

Unit 9a

Fractions: Calculating

Add mixed numbers (denominators multiples of each other) fractions beyond the whole (mixed number answer)

Add mixed numbers (denominators not multiples of each other) fractions within the whole (mixed number answer)

Add mixed numbers (denominators not multiples of each other) fractions beyond the whole (mixed number answer)

Add mixed and proper fractions (denominators not multiples of each other) fractions beyond the whole (mixed number answer)

Add mixed number and proper fractions (denominators not multiples of each other) fractions within whole (mixed number answer)

Add proper fractions (denominators not multiples of each other) beyond the whole (mixed number answer)

Add proper fractions (denominators not multiples of each other) within the whole

Add mixed numbers (same denominators), fractions within and beyond the whole (mixed number answer)

Add mixed numbers (denominators multiples of each other) fractions within the whole (mixed number answer)



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Year 6

Unit 9b

Fractions: Calculating

Subtract mixed number from mixed numbers (denominators multiples of each other), fractions across the whole

Subtract mixed number from mixed numbers (denominators not multiples of each other), fractions within the whole

Subtract mixed number from mixed numbers (denominators not multiples of each other), fractions across the whole

Subtract mixed number from mixed numbers (denominators multiples of each other), fractions within the whole

Subtract mixed number from mixed numbers (same denominators), fractions across the whole

Subtract mixed number from mixed numbers (same denominators), fractions within the whole

Subtract proper fractions from mixed numbers, fractions across the whole (denominators not multiples of each other)

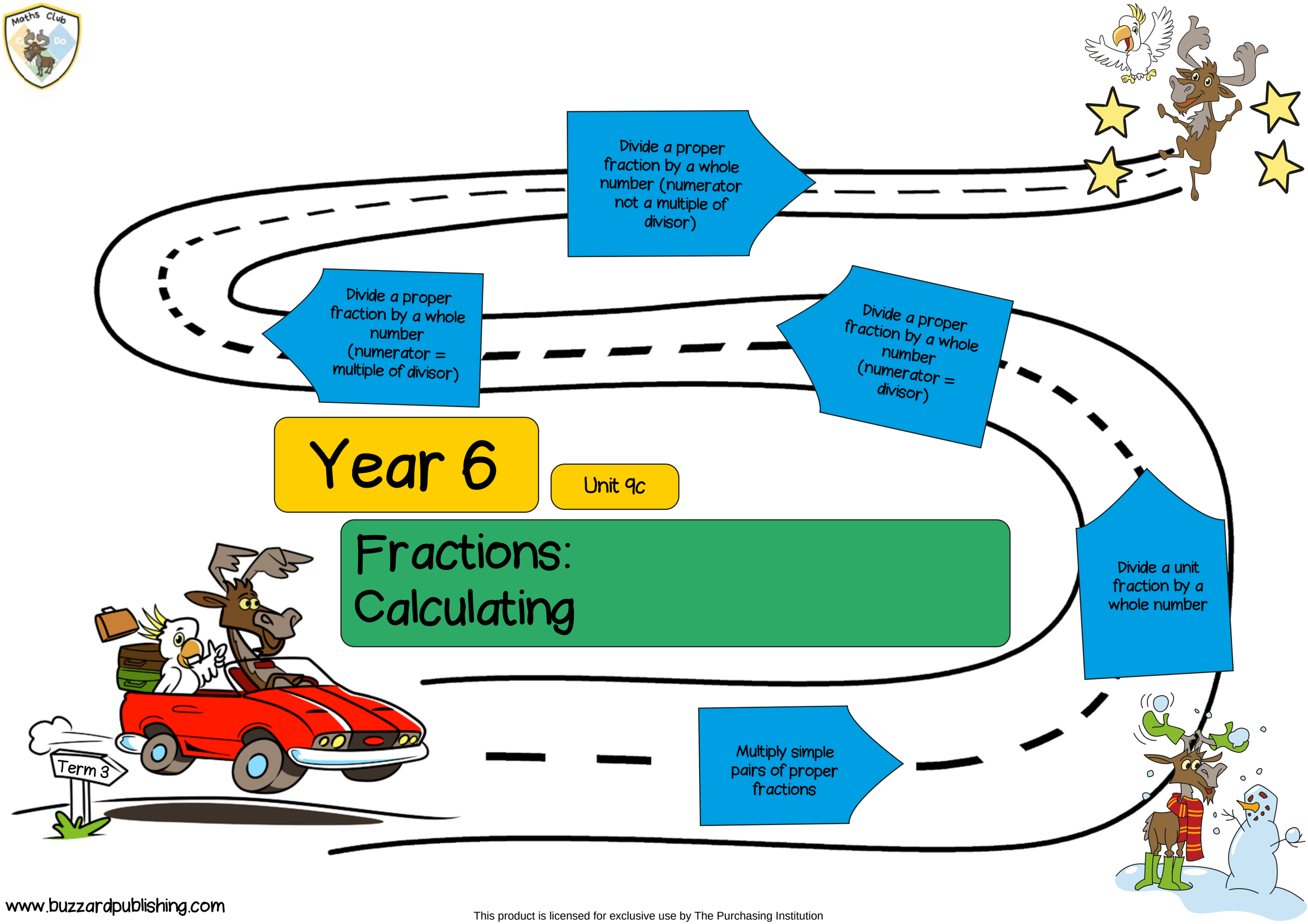
Subtract proper fractions from mixed numbers, fractions within the whole (denominators not multiples of each other)

Subtract proper fractions (denominators not multiples of each other) within the whole



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Year 6

Unit 11

Ratio and Proportion Road Map

Find the value of the whole and parts, given one part

Use scale factors to calculate dimensions in similar shapes

Use scales to find distances

Find the value of the parts, given the whole

Use percentages to make comparisons

Find complex percentages of an amount (eg 17%, 28%, 63%)

Find simple percentages of an amount (mulitples of 10% and 5%)

Find 10%, 25%, 50% and 75% of an amount



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Year 6

Unit 12

Measurement: Converting Units Road Map

Convert between miles and km

Convert between units of time

Convert between metric units from the larger unit to the smaller unit

Convert between metric units from the smaller unit to the larger unit



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Calculate the volume of cuboid, including cubes

Calculate the area of a triangle

Year 6

Unit 13

Measurement: Area and Volume Road Map



Recognise that shapes with the same areas can have different perimeters and vice versa

Calculate the area of a parallelogram



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Year 6

Unit 14

Algebra Road Map

Find a missing term in a linear sequence

Describe a number pattern algebraically

Describe and find the next terms of a linear sequence

Generate a linear sequence from its description

Find pairs of numbers that satisfy an equation with two unknowns e.g. a + b = 15

Find combinations of two variables

Express missing number problems algebraically

Use simple formulae expressed in words (e.g. time needed to cook a chicken: allow 20 minutes plus 40

Know the basic rules of algebraic notation



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Understand the meaning of 'average' and calculate the mean of a set of discrete data

Interpret the mean of a set of discrete data

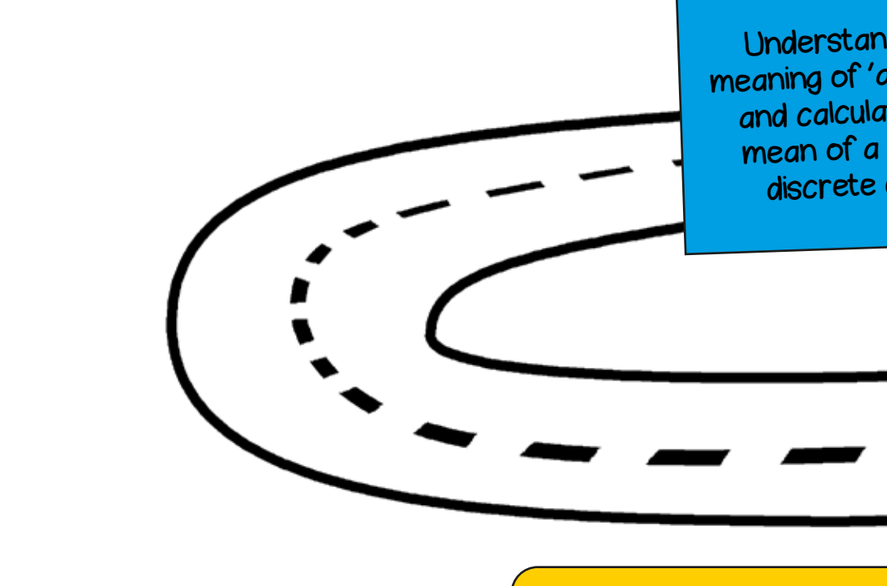
Construct a pie chart by measuring angles

Interpret pie charts

Year 6

Unit 14

Statistics



Interpret line graphs

Construct line graphs



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