S2 Distance Scheme of Learning

The lessons from Oak National Academy, have embedded quiz and exit tickets for students to check their understanding.

Data and Analysis

Find the mean, median, mode and range from a list of numbers

Stem and leaf diagrams

Pie charts (interpreting)

Probability as a fraction

Scatter Graphs

Number problems/Number Facts & Order of operation

BODMAS

Factors (Finding factor pairs)

Multiples (LCM)

Primes

LCM & HCF

Negative Numbers

Adding negative numbers

Subtracting negative numbers

Multiplying/Dividing

Decimals

[Add/Subtract decimals](#)

[Multiply/Divide by 10,100,1000](#)

[Multiply by multiples of 10,100,1000](#)

[Divide by multiples of 10,100,1000 (Youtube video)](#)

[Multiply a decimal by a decimal](#)

[Divide a decimal by a decimal](#)

[Rounding decimals_part 1](#)

[Round decimals_part 2](#)

[Rounding to a particular significant figure](#)

Fractions

[Equivalent Fractions](#)

[Fractions of Quantity](#)

[Change between improper/mixed fractions_part 1](#)

[Change between improper/mixed fractions_part 2](#)

[Add/Subtract Fraction same denominator](#)

[Add/Subtract Fractions different denominator](#)

[Adding mixed fractions](#)

[Subtracting mixed fractions](#)

[Multiple a fraction by another fraction](#)

[Divide a fraction by a fraction](#)

Percentages

Percentages on a number line

Converting to decimals

Converting from fractions to percentages

Percentages of amount

Percentages of amount (Part 2)

Decimal Multipliers

Increase by a percentage

Decrease by a percentage

Area, Perimeter & Volume

Converting units-length

Perimeter (revision)

Area of square/rectangle (revision)

Area of a triangle

Composite Areas

Volume of cube/cuboid

Unit conversion (grams & kilograms)

Extension

Area of parallelograms

Parts of a circle

Circumference of a circle

Area of a circle

Whole Number

Our learning Our community Our future

Algebra

[Algebraic expressions](#)

[Collecting like terms](#)

[Distributivity and expanding](#)

[Factorising expressions](#)

[Forming and exploring equations](#)

[Exploring equality](#)

[Inequalities](#)

[Further inequalities](#)

[Perimeter expressions](#)

[Perimeter inequalities](#)

[Counting strategies](#)

[Growing tree patterns](#)

Time

[DST calculations](#)

[Covert hours and minutes into decimal time (Youtube video)](#)

Linear patters

[Find the term to term rule](#)

[More complicated patterns](#)

Ratio & proportion

[Simplifying ratios](#)

[Divide a quantity in a given ratio](#)

[Direct proportion](#)

Our learning Our community Our future

Extension

[Indirect proportion](#)

Angles/Scale Drawing

[Recognise right angles](#)

[Recognise acute and obtuse angles](#)

[Angles in a triangle](#)

[Calculating angles within a shape](#)

[Alternate angles](#)

[Finding unknown angles_vertically opposite & more](#)

[Scale Factor & enlarging objects](#)

[Constructing Triangles](#)

Extension

[Find missing angles in quadrilaterals](#)

[Bearings & compass points](#)

[Bearings on a coordinate grid](#)

[Bearings using angle facts](#)

Wages & Salaries

[Hourly rate/overtime (Youtube video)](#)

[Exchange rate](#)

[Savings](#)

Extension Topics

Scientific Notation

Changing small & large numbers into scientific notation

Pythagoras

Square & cube numbers

Square & cube roots

Find the hypotenuse/short side

Straightline

Find the gradient

Intro into y=mx + c