

S1 Distance Learning Planner

(last update 15/12/20)

The lessons included from Oak National Academy are Self Contained Exercise, with built in quizzes etc.

Whole Number

Addition and Subtraction

- [Deriving Number Facts](#)
- [Addition and Subtraction Facts](#)
- [Choosing the correct addition strategy](#)
- [Choosing the correct subtraction strategy](#)
- [Add using the column method](#)
- [Add using the column method with regrouping](#)
- [Subtracting using the column method](#)
- [Subtracting using the column method with regrouping](#)
- [Mixed addition and subtraction](#)
- [Representing word problems part 1](#)
- [Representing Comparison word problems part 2](#)
- [Representing word problems part 3](#)

Multiplication and Division

- [Pictorial Representation of Multiplication and Division](#)
- [Representing Problems with bar models](#)
- [Representing Problems with bar models part 2](#)
- [Multiplying a two digit number by a single digit](#)

- [Multiplying 3 digits by a single digit](#)
- [Multiplying 3 digits by a single digit part 2](#)



Coordinates

- [Describing coordinate positions on a grid](#)
- [Translating simple shapes](#)
- [Reflecting simple shapes](#)
- [Solving practical coordinate problems \(Part 1\)](#)
- [Solving practical coordinate problems \(Part 2\)](#)

Decimals

- [Add and Subtract Decimals](#)
- [Multiplication of two decimals](#)
- [Division of a decimal number by an integer](#)
- [Decimal divided by decimal](#)

Algebra (Simplifying and Evaluating)

- [Writing Expressions](#)
- [Collecting Like Terms](#)
- [Expanding Single Brackets](#)
- [Factorising](#)

Fractions (simplifying etc.)

- [Equivalent Fractions](#)
- [Simplifying Fractions](#)
- [Comparing Fractions](#)
- [Improper Fractions Part 1](#)
- [Improper Fractions Part 2](#)
- [Fractions of Quantity](#)

Extension

- [Add/Subtract Fraction same denominator](#)
- [Add/Subtract Fractions different denominator](#)

Ratio

- [Simplifying ratios](#)
- [Divide a quantity in a given ratio](#)
- [Find a part given a part](#)
- [Find the total or difference given a part](#)
- [Equivalent ratios](#)
- [Direct proportion](#)
- [Ratio Shares part1](#)
- [Ratio Shares part2](#)

Negative Number

- [Adding directed numbers](#)
- [Subtract directed numbers](#)
- [Multiply and divide directed numbers](#)
- [Order of operations](#)

Angles

- [Understanding angles](#)
- [Recognise right angles](#)
- [Recognise acute and obtuse angles](#)



- [Angles within a shape](#)
- [Compare and order acute, obtuse and reflex angles](#)
- [Reading angles on a protractor \(Part 1\)](#)
- [Reading angles on a protractor \(Part 2\)](#)
- [Reading angles on a protractor Part 3](#)
- [Draw angles with a protractor 1](#)
- [Draw angles with a protractor \(Part 2\)](#)
- [Calculating angles on a line or around a point](#)
- [Calculating angles within a shape 1](#)
- [Calculating angles within a shape \(Part 2\)](#)
- [Calculating angles within a shape 3](#)
- [Revision and Angle fluency facts](#)

Algebra: Solving Equations

- [Solving one-step equations](#)
- [Solving two-step equations](#)

Extension

- [Solving equations with brackets](#)
- [Solving equations with unknown on both sides](#)

Time

- [Understanding that clocks have more than one scale](#)
- [Reading analogue time to the nearest minute](#)
- [Telling the time to am and pm](#)

- Telling 'minutes past' on a digital clock
- Reading and ordering time (presented in different ways)
- Exploring units of measured time
- Measuring time in seconds
- Calculating and comparing intervals of time
- Applying knowledge of time to solve problems
- Further applying knowledge of time to solve problems

Symmetry

- To identify lines of symmetry in 2-D shapes
- To identify lines of symmetry in a pattern
- To investigate a problem using symmetry (Part 1)
- To investigate a problem using symmetry (Part 2)
- Translation
- Rotation
- Reflection
- Mixed Transformations
- Combining Translations and Reflections

2D Area

- Properties of 2D shapes-parallel lines
- Perimeter
- Perimeter of composite shapes
- Area Description



- [Area of square/rectangle](#)
- [Area of triangles](#)
- [Composite Areas](#)

3D/Volume

- [Properties of 3D shapes](#)
- [Recognise & draw nets of cubes](#)
- [Recognise & draw nets of prisms](#)
- [Simple volume](#)
- [Volume of cube/cuboid](#)
- [Reading Liquid Volumes](#)

Data and Analysis (Chart types)

- [Pictographs & Bar graphs](#)
- [Composite bar graphs](#)
- [Drawing bar graphs](#)
- [Simple pie charts](#)
- [Probability-language](#)
- [Probability as a fraction](#)

Extension

- [More complicated pie charts](#)
- [Introduction to averages \(mean\)](#)



History of Maths

Research famous mathematicians e.g Andrew Celsius, Pythagoras...the list goes on. Create a presentation of your results.

You may wish to research;

Q: Who invented the thermometer?

Q: Who invented pie charts, bar graphs? What are they used for?

Q: Who is Pythagoras? What was his invention?

Linear Number Patterns

- Linear number patterns

Scale Drawings and Bearings

- Bearings & compass points
- Scale Factor & enlarging objects
- Constructing Triangles

Fractions/Decimals/Percentages

- Understanding percentages
- Percentages as a fraction & decimal
- Converting from fractions to percentages
- Finding a percentage of a quantity

Number Theory: Primes, HCF, LCM, BODMAS, Rounding

- Rounding to 10,100,1000 & nearest whole number
- Rounding to 10,100,1000, nearest whole number & D.P
- Rounding to 2 D.P
- BODMAS
- LCM & HCF
- Prime Numbers

Measurement

- Converting between metric units of length
- Converting measurement length, mass & capacity