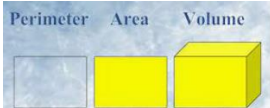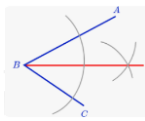# MATHS LEARNING JOURNEY — FAIRLANDS MIDDLE SCHOOL

Term 1 at Kings, all students will study:
Place Value,
Rounding
Use of a calculator
Pythagoras
4 operations with negative numbers and decimals,
BIDMAS,
Indices
Standard form

Kings Y9

Percent Proportion

$$\frac{percent}{100} = \frac{part}{whole}$$

$$\frac{60}{100} = \frac{3}{5}$$

LINEAR EQUATION
$12x - 8 = 40$
$X = 4$

Constructions

Perimeter, Area and Volume

Understanding multiplicative relationships: percentages and proportionality

Solving Linear Equations

ARITHMETIC SEQUENCE
-6, 1, 8, 15, 22
+7 +7 +7 +7

Geometrical Properties: Polygons

Statistical representations, measures and analysis

Graphical representations of linear relationships

Sequences

PERIMETER — The distance around the edge of a shape

AREA — The amount of space inside a shape

PENTAGON HEXAGON HEPTAGON
HEPTADECAGON OCTAGON

$\frac{3}{2}$ fraction $3{:}2$ ratio

Length
millimetre (mm)
centimetre (cm)
metre (m)
kilometre (km)

Estimation and Rounding

Rounding Numbers
2349 → 2400
2300

Expressions and Equations

Perimeter and Area

Multiplicative relationships: Fractions and Ratio

Rotation Reflection Translation Dilation

Year 8

Arithmetic procedures with integers and decimals
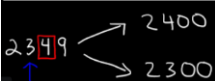
Plotting Co-ordinates

Arithmetic procedures including Fractions

$$\frac{2}{3} + \frac{1}{4}$$

Transformations

Properties of Number: Factors, Multiples, Squares and Cubes

p 2 3 5 7 11 13 17   Factors of 24

2 : 3

Solving problems with two unknowns

Ratio & Proportion

Scale Factor

Statistics

Year 7

Place Value

Mean Average

Calculating using knowledge of structures (2)
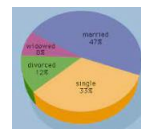
Fractions and Percentages inc +/- & x/÷

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$$

$$average = \frac{sum\ of\ values}{number\ of\ values}$$

Perimeter Area Volume
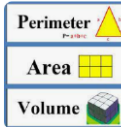
Area, Perimeter, position and direction

Calculating using knowledge of structures (1)

Draw, compose, and decompose shapes

Year 6

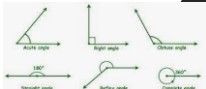Number and Place Value

Number Facts

Numbers up to 10,000,000

Multiplication and Division

Fractions

Operating on Number

Angles

Factors, Multiples & Primes

Area & Scaling

Number Facts

1 000 000s	100 000s	10 000s	1000s	100s	10s	1s
3	2	1	0	4	2	1

Multiplicative Reasoning

Number & Place Value

Year 5

Multiplication and Division

Converting Units

p 2 3 5 7 11 13 17   Factors of 24

Ratio & Proportion

Fractions

$$\frac{1}{5} \quad \frac{1}{3} \quad \frac{1}{11} \quad \frac{1}{4} \quad \frac{1}{8}$$
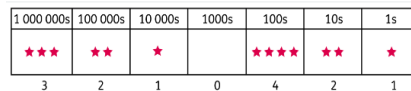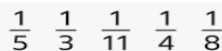
Calculating with decimals

Negative Numbers

Money

Geometry

Statistics

Maths