Mathematics Learning Journey

Using and Applying

Number

Geometry & Measures

Statistics

Life Skills maths

college, employment and life

Intent: Maths is a really important part of everyday life. The intention of our Maths curriculum is for pupils to: Make sense of our world; Tackle real-life problems; Communicate information; Develop skills which are essential in most other areas of the curriculum; Develop skills for life to achieve success in the workplace; and economic well-being. We want students to acquire life-long skills which will support them in their futures. Implementation: KS3 students will study Number, Geometry and Measures, and Statistics topics (some study Algebra). Real-life and functional Maths is used and applied throughout Maths lessons, and across other areas of the curriculum and as part of the school day. In KS4, some students will have opportunities to access the OCR Maths Entry Level course. Some students study AIM Awards in Maths, which are a series of Functional Skills qualifications, providing learners with the maths and numeracy skills and abilities they need to take an active and responsible role in their communities, workplace, educational settings and in their everyday life. Impact: CRS use CREATE trackers and Go4schools for assessment. The system enables us to identify gaps in teaching and learning, determine where intervention is needed and measure progress within and across the school. Our Go4schools data shows us that all students are on track to meet their teacher target. The targets are informed and challenging. Students develop life-long skills to support them in contexts beyond the classroom.

Distance – time graphs Money conversion graphs

Systematic listing

Tally charts

Bar graphs

Averages & trends

Shopping

Budgeting

Bills

Year

11

Year

10

Scales & graphs

Lists & outcomes **Pictograms**

+/-

Scatter graphs

Mean, median, mode, range

Further develop Functional

Maths skills

Post 16

Coordinates

Solve money

Venn diagrams Read scales

Proportion problems

Equivalent fractions, decimals, percentages

Percentages of amounts

Money, calendar,

problems

time 14:35 Time conversion,

12-24hr

Timetables, twoway tables

Reflection & Rotations symmetry

Ratio & proportionality

Y10 and Y11 OCR Entry Level and AQA Accredited Courses

Fractions / decimals / percentages

Equivalent Order decimals / fractions fractions

Compass

Measure Perimeter & length

Symmetry and transformations

Translations

Sorting shapes

by property

Classification

Calculations

calculations

Measurement –

perimeter/area/volume

Perimeter, area & volume of

simple 2D/3D shapes

with $+/-/x/\div$

Scales / graphs

Read scales / intervals

Times tables

Index notation

points angles Order/compare

numbers

Measure & draw

Mean

average

Statistics

Pie charts &

line graphs

Year

area

Units &

measure

Shapes

Inverses in

Calculations / formulae

Sequences

Negative

numbers

Functions

Estimation / Multiples Rounding

Geometry –

shapes and nets

Classify

shapes

Decimal places / significant figures

Missing angles

& lengths

Place value /

Letters/symbols to represent unknowns

Algebra

Solve problems with time

factors for ratio Number –

Use x and ÷ as scale

properties of **Ratio** shapes Build/draw 2D/3D Compare one

thing to another + / - fractions with

Calculations Long multiplication / different denominators with +/-/x/÷ short division

Number – decimals / percentages Calculate with decimals

Calculate with

percentages

position & direction Coordinates Coordinates

Translation / reflection

Geometry –

Number – fractions Multiply /

Number – place Positive & + / - numbers

negative integers any size Capacity /

Intro +/- fractions with different denominators

Multiply fractions Intro to

Draw, measure and

Reflection & translation

volume

Number – fractions /

decimals / percentages

percentages

compare angles

Geometry – properties of shapes / position &

divide fractions

direction

2D representations of 3D shapes

Convert between Convert between metric units units of time

simple 2D shapes

Perimeter and area of

Compare, order,

simplify fractions

Short division

+/-/x/÷ with

decimals

Tables

100 = 0 to 1000

numbers

- Addition / subtraction

+ / - with up **Roman Numerals** to 4-digits Number – place value

perimeter/area

10s 100s

Number -

multiplication & division

50:L **Statistics**

Line graphs

/ addition &

subtraction Negative

below 0

Numbers to 1 million

Measurement –

converting units / volume

8 Compare

1000s Area by counting

shapes

Measurement

Fractions of amounts

& primes Introduction

6, 7, 9, 25, 100

Times tables

Short

Factors, multiples

Multiply 2-digit numbers

Solving money problems

Bar charts, pictograms

Symmetry Geometry – properties of

angles Coordinates shapes / position & (8,2) (9,4)

Coordinates &

translations

Year

Number -Measurement fractions/decimals

Equivalent

fractions

money/time +/- with same denominator

to decimals

Convert between units of time

Measurement –

Time graphs, tables 4-digit

Statistics

Classify triangles/ quadrilaterals Numbers

Number – place value

direction

Number multiplication / division

Factor

pairs

length / perimeter multiplication

Perimeter of simple shapes

Measurement –



4-digit addition and subtraction

numbers

Roman Numerals to 100

Beginning our

Year

Every Child, Every Chance, Every Day

Mathematical

Journey