CAREERS LINKS

## AUTUMN 1

| Number | Fractions | Decimals \& PercentagesPercentages of amount: | Prior Learning |
| :---: | :---: | :---: | :---: |
| Multiplication | Fractions of amounts | Increase/decrease by a percentage | Times tables (KS2) |
| Division | Add/subtract/multiply/divide fractions | Ordering fractions, decimals, and percentages | Basic place value (KS2) |
| Order of operations | - Problem Solving with fractions | Write a quantity as a fraction/percentage of ano | Fractions of shapes and amount (KS2) |
| Negative numbers |  | Problem solving with percentages and decimals | Equivalent fractions (KS2) |
| - Using a calculator) |  |  | Percentages (KS2) |

Accountancy, chef, banking insurance, bookmaking, risk analyst, news reporting, analyst, businessperson, performance analyst. Actuaries, economist meteorologist, carpenter, welder, construction, architecture, joinery, games designer, software design \& IT engineering, catering, hairdressing.

## CHARACTER LINKS

Perseverance and determination skills are fostered (performance virtues) particularly when students do not arrive at the correct answer first time and when trial and error skills are needed. Project work encourages critical thinking, judgement and reasoning skills (intellectual virtues) to arrive at the outcome

## KEY ASSESSMENT

DATES
Year 7 have a baseline
assessment in October. They will have one large assessment at the end of each term which will test all the topics that the students have covered.

| Probability | Angles | Statistical Diagrams | Prior Learning |
| :---: | :---: | :---: | :---: |
| Carry out and analyse probability experiments | Drawing and measuring angles | Stem and leaf diagrams | Names and properties of 3D shapes (KS2) |
| Equally likely outcomes Sample space diagrams | Solving angle problems using known angle facts | - Pie Charts <br> - Scatter graphs | How to draw a bar chart and interpret data (KS2) Types of angles (KS2) |

- Carry out and analyse probability experiments Sample space

Solving angle problems using known angle facts

Stem and le
Pie Charts
Scatter graphs

## Project 1

Use probability and fractions, decimals and percentages to investigate whether there is life outside of planet Earth.

## Prior Learning

Fractions, decimals, and percentages (autumn1) Working with directed number (Autumn1)

## SPRING 1

## Developing Algebra

Algebraic notation

- $\quad$ Substitution
- Expanding brackets
- Factorising
- Solving equations
- Solving algebraic problems


## Measures, perimeter and are

- Metric units
- Area of 2D shapes

Perimeter of 2D shapes

## SPRING 2

|  | Measures, perimeter and area | Data handling |
| :--- | :--- | :--- |
| - | Metric units | $-\quad$ Averages |
| - | Area of 2D shapes | $-\quad$ Solving statistical problems |

- Perimeter of 2D shap
- Averages

Solving statistical problems

## SUMMER 1

Prior Learning
Inverse operations (KS2)
Order of operations. (Autumn1)
Names and properties of 2D shapes (KS2)
Units of lengths and areas (KS2)
Multiplication of whole numbers (KS2)
Decimals and Fractions (Autumn 1)

## Prior Learning

## What is data? (KS2)

Names and properties of 2D shapes (KS2)
Units of lengths and areas (KS2)
Multiplication of whole numbers (KS2)
Decimals and Fractions (Autumn 1)

| - | Tree diagrams | - | Understanding angles in a <br> polygon. |
| :--- | :--- | :--- | :--- |
| - | Venn diagrams |  | Decimals and Fractions (Autumn 1) |

## SUMMER 2

3D shapes

- Faces, Vertices and Edges Plans and Elevations
- Volume and Surface Area of prisms

Ratio
Simplifying ratio Solving ratio problems Using a bar model

Project 3
Decide who is the most suitable candidate for the mission by using data handling skills of collecting information, representing and analysing

Prior Learning
Equivalent fractions (KS2)
Division (KS2)
Understanding of the bar model (KS2)

