## AUTUMN 1

| Number, Powers and Standard Form | Fractions and Percentages | Ratio and Proportion | RAR | Prior Learning |
| :---: | :---: | :---: | :---: | :---: |
| - Prime factors | - Converting between improper fractions and mixed numbers | Simplifying ratio and writing in the form 1: $n$ | Teachers will use assessment data to revisit topics to improve | -Negative Numbers (Year7 Aut1) |
| Negative numbers | Multiply and divide fractions | Solve ratio problems | these skills. | -Decimal Calculations (Year7 Aut1) |
| Prime numbers | Write a quantity as a fraction/ | Combining ratios |  | -Indices (Year8 Aut2) |
| - Square and square rooting | percentage of another Increase/ decrease by a | Recipe-style proportion problems |  | -Standard Form (Year8 Aut1) |
| - Standard form | percentage | - Best Buys |  | -Fractions and Percentages (Year7 |
| - Estimation | - Simple and compound Interest <br> - Reverse percentages |  |  | Aut1/ Year8 Spr1) |

## AUTUMN 2



## SPRING 2

| Averages | Length, Area and Volume | RAR | Assessment and QLA |  |
| :---: | :---: | :---: | :---: | :---: |
| - Calculate Averages | - Area of 2D shapes and compound | Teachers will use assessment data to revisit topics to improve these skills. | Students will receive personalised feedback and revisit | -Averages (Year7 Spr1) |
| - Solve averages problems <br> - Find averages from a frequency table | shapes <br> - Volume of a prism |  | personalised feedback and revisit personalised topics. | -Area and Volume (Year7 Spr2/ |
|  | Volume of a pyramid |  |  | Year7 Sum1) |
|  | - Arc Length and area of a sector <br> - Volume and surface area of a |  |  |  |
|  | cylinder, cone and sphere |  |  |  |

## SUMMER 1

| Statistical Diagrams | Inequalities |
| :---: | :---: |
| Line graphs | Representing on a number line |
| Stem and leaf diagrams | Solving Inequalities |
| Pie charts and scatter diagrams | Graphical inequalities |
| Similarity | Transformations <br> - Prove triangles are congruent <br> - Reflection and rotational symmetry <br> - Translation and rotation <br> - Enlargement including negative and fractional scale factors <br> - Solve problems involving multiple transformations |
| - Solve similar shape problems <br> - Solve problems involving the area and volume of similar shapes |  |
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nstructions and Loci
Plans and elevation Constructing triangles Angle bisector and
RAR
Teachers will use assessment
data to revisit topics to improve
these skills.
Prior Learning
-Statistical Diagrams (Year7 Spr1)
-Plans and Elevations (Year7 Sum1)

## SUMMER 2

RAR
Teachers will use assessment data to
revisit topics to improve these skills.
Assessment and QLA
Students will receive
personalised feeddack and revisit
personalised topics.
Prior Learning
-Similar shapes (Year8 Spr2)
-Limited transformations (KS2)

CAREERS LINKS
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 9 will have an assessment at the end of every unit
(approximately 2-3 weeks). They will have one large assessment in March and then at the end of the year which will test all the topics that the students have covered.

