| Curriculum | tent Ma |  |  |  |  |  |  | Subject: Maths V |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Mooth | Seperemer | ${ }_{\text {October }}$ Tem | ${ }^{\text {rem }}$ Norember | December | Janar | ${ }_{\text {Februar }}$ Tem2 |  |  |  | $\frac{\text { Tem3 }}{\text { June }}$ |
|  |  |  | Ratio and Proportion | $\begin{aligned} & \text { factions } \\ & \text { NuMERER } \end{aligned}$ | seometranat Gpaphs SHAPE AND DATA | Reperentation | Espond Bacates | quences and Indices <br> ALGEBRA |  | tandard form and Measur NUMBER | Geometry | Transformations and Data Handling <br> SHAPE AND DATA |
| $\stackrel{5}{3}$ <br> $\cdot \frac{0}{5}$ <br> $\frac{5}{4}$ <br> $\frac{1}{0}$ <br> $\frac{1}{2}$ <br> $\frac{0}{3}$ <br> $\frac{1}{3}$ <br> 3 |  |  |  |  |  | Construct sample spaces for 1 or more events Find probabilities from a sample space Find probabilities from two-way tables Find probabilities from Venn diagrams Use the product rule for finding the total number of possible outcomes |  |  |  |  |  |  |
|  |  | The Wrat | Find ratios Use <br> Proportion Use scale <br> factor Draw maps | operatios with far | Plot coordinates <br> Explore graphs and linear equations Draw <br> and use line of best fit Represents <br> data  | $\begin{aligned} & \text { Draw venn diagrams } \\ & \begin{array}{l} \text { Construct sample space diagrams } \\ \text { probabilities } \end{array} \quad \text { Find } \\ & \hline \end{aligned}$ |  | Find nht temm use inder luws | Convert between fractions decimals and percentages. Find percentage change and original amounts |  |  | Comple |
|  |  | The Howl |  | Uneme | Understand how to work with coordinates $\quad$ Understand how to plot graphs using linear equations Understand methods to represent data | Understand how to use sample space diagrams and how to draw venn diagrams undersatnd how probabilities are found | Unemer | Understand nth term and understand how to add, subtract powers and raise a power to a power. |  | Unememen | of ine ine |  |
|  |  |  |  | Builds from KS3: <br> Further develops in Y11: <br> Algebraic Fractions | Builds from KS3: Plot points and draw bar charts <br> $\frac{\text { Further develops in Y11: }}{\text { Plot points and draw rec }}$ <br> poins and draw reciprocal grap | Builds from KS3: Sort data $\frac{\text { Further develops in Y11: }}{\text { Probability of something not happenening }}$ |  |  | Builds from KS3: Convert basic FDP Further develops in Y11: Simple and Compound Interest |  |  | $\begin{aligned} & \text { Builds from KS3: } \\ & \text { Representing Data, Reflection } \\ & \text { Further develops in Y11: } \\ & \hline \text { Draw Histograms } \end{aligned}$ |
|  |  |  |  | ${ }_{\text {cosem }}$ | Deep Mark 1: AP1 Assessment - Whole School Data Collection End of Topic Test - Algebra and data | Deep Mark 2: Homework End of Topic Test -Probability | Deep Mark 1: Homework End of Topic Test - Algebra | Topoctert Sequenesesand didies |  |  | Seep Mart: Hemenow |  |
|  | $\stackrel{8}{3}$ |  | Friendiliess 8 curity | Justice 8 Tuuthuness | Courage | Geneosity | Gratude | Good speech | Good Temper A Humur |  | naster | Compas |
|  |  | ander |  | Students will look at the truthfulness of fractions. Students will also look at how fractions are used to hide the truth. | Students will need to demonstrate courage to extend their knowledge of data and build upon this to tackle more difficult linear graphs. | Students will need to be generous with their time in terms of retrieval as this will need to be secure in order to understand how to write probability |  |  |  |  | $\begin{aligned} & \text { udents have learned how to use angle facts, } \\ & \text { t will now be mastering these skills and } \\ & \text { arning to use them. } \end{aligned}$ | Lidem |
| ¢ | 咅 |  | Ustering | Leadestip | blem.Soling | Creativity | Stajing Postive | Speaking | Stavig Possitie |  | ${ }_{\text {gigh }}$ | Speaking |
|  | 旁 |  |  | Students will lead their learning to ensure they are secure in building on previous knowledge. This unit links to careers in Insurance. | Students will need to use their problem- solving skills to be able to draw graphs. This unit links to careers in statistics and data analysis | Students will demonstrate creativity as they look at the different ways of explaining venn diagrams. This unit links to careers in business models and Actuaries | Students will need to stay positive as they encounter factorisationand ensure they feel secure in their knowledge. This unit links to careers in retail sector | Students will need to use their speaking skills as they explain their working and also explain how to transform shapes. This unit links to careers as a tiling and pattern making |  |  | Students will need to aim high when finding missing angles in problem solving. This unit links to careers in constructions and interior design |  |
|  |  |  | Social Mutual Respect | $\begin{array}{\|l\|l\|} \substack{\text { Social } \\ \text { Nooit } \\ \text { Rute of taum }} \\ \hline \end{array}$ | $\begin{gathered} \text { Social } \\ \text { Sopal } \end{gathered}$ Democracy | $\begin{gathered} \text { Social } \\ \text { Tolerance } \end{gathered}$ |  |  | Socar | $\begin{gathered} \hline \text { Social } \\ \text { Cultural } \\ \text { Individual Liberty } \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Social } \\ \text { Rule of Law } \end{gathered}$ |
|  |  |  |  |  |  | Students will need to use their social skills to retrieve and extend their learning in paired and group activities. Students will need to demonstrate tolerance for each other and support each other rather than get frustrated when peers find work more difficult. | Students will need to use their social skills as they work together in group activities. Students will look at different cultures and their contribution to mathematics. Students will need to understand the rules and processes associated with using different methodssolve inequalities. |  | ether in pairs and groups. a democratic way in order to ensure they ns of FDP. |  |  | Students will need to use their social skills as they complete paired and group work. Students will understand the data represented in diagrams and use the information from there. |



