

## Term 2

Check
Unit 3 - Linear Equations in 2 Variables



## Term 3

Check
Unit 5 - Non-Linear Graphs

| $\bullet$ | I can interpret and draw distance-time graphs and other graphs that show rates of change |  |  |
| :--- | :--- | :--- | :--- |
| $\bullet$ | I can use graphs for rates of change to solve problems |  |  |
| $\bullet$ | I can interpret and draw the graph of a quadratic function $\mathrm{y}=\mathrm{ax}^{2}+\mathrm{bx}+\mathrm{c}$ |  |  |
| $\bullet$ | I can state the properties of quadratic graphs |  |  |
| $\bullet$ | I can interpret and draw exponential, reciprocal and piece-wise graphs |  |  |



| Term 4 | Check |
| :---: | :---: |
| Unit 8 - Congruence, Similarity and Enlargement |  |
| - I can state the conditions for two triangles to be congruent |  |
| - I can identify congruent triangles |  |
| - I can solve problems involving congruence |  |
| - I can understand the idea of similarity |  |



Term 5
Check
Unit 10 - Surface Area of Pyramids and Cones

| $\bullet$ | I can visualise the idea of surface area of pyramids and cones using nets |  |
| :--- | :--- | :--- | :--- |
| $\bullet$ | I can find the surface areas of pyramids and cones |  |
| $\bullet$ | I can find the surface areas of composite solids involving prisms, cylinders, pyramids and cones |  |

Term 6 (Topics in grey are only for higher tier) GCSE - Algebraic Expressions

| I can write instructions like multiply 2 by $x$ as $2 x$ |  |  |  |
| :--- | :--- | :--- | :--- |
| I understand expressions, terms, equations and formulae |  |  |  |
| I can substitute numbers into expressions |  |  |  |
| I can change worded problems into algebra, then use the formula |  |  |  |


| E.g, a car hire company charges $£ 100$ plus $£ 30$ per day. Write a formula for the cost of hiring |  |  |
| :---: | :---: | :---: |
| I can simplify expressions by collecting the like terms |  |  |
| I can understand powers/indices in algebra like $\mathrm{a}^{2} \mathrm{x} \mathrm{a}^{3}$ |  |  |
| I can expand brackets eg 3(x+4)=3x+12 |  |  |
| I can expand and simplify expressions with more than one bracket eg 3(2x+3)+2(5x+4) |  |  |
| I can factorise expressions eg 15x+25=5(3x+5) |  |  |
| I can simplify algebraic expressions |  |  |
| I can solve equations involving algebraic fractions |  |  |
| GCSE - Data Handling (Statistics) |  |  |
| 1 understand sampling methods like random sampling |  |  |
| I can give advantages and disadvantages of different types of sampling methods and I understand bias |  |  |
| I can organise data into frequency tables and stem and leaf diagrams. |  |  |
| I can organise data into, and interpret, two-way tables, pictograms and bar charts (Calculate the angles for pie charts) |  |  |
| 1 can draw and interpret pie charts inc. calculate the angles for pie charts |  |  |
| 1 can find the mean, median, mode and range of data |  |  |
| I can find the inter-quartile range (IQR) |  |  |
| I can find the mean from a frequency table |  |  |
| I can find the mean of combined data sets |  |  |
| I can calculate a stratified sample |  |  |

