| KS4 Curriculum Plan |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LP1 | LP2 | ${ }^{1}{ }^{1}$ | LP4 | LP5 |
|  | TOPIC | Statistical, Numerical \& Algebraic thinking | Numerical \& geometrical thinking | Geometrical \& algebraic thinking, Ratio \& Proportion | Statistical, Numerical \& Algebraic thinking | Numerical, algebraic \& geometrical thinking |
|  | Knowledge | Data Cycle, Primes, factors \& multiples, Algebraic manipulation | $\begin{gathered} \text { Accuracy \& rounding, Circles, Spheres \& pyramids, } \\ \text { right-angled triangles, Proof \& formulae, Geometric } \\ \text { constructions \& calculations } \end{gathered}$ | Geometric constructions \& calculations, ratio, direct \& inverse prop equations graphically | Solving equations algebraically, fractions \& decimals, <br> bivariate data, Indices \& standard form, exac calculations <br> calculations | Equations \& inequalities, straight line graphs, compound units, 2D \& 3D representations |
|  |  | IVand demonstate knowedge and undestar | Ing of mathematical skils to porobem sove, using a ans | e of modeling m mathematical repesentations. Use reas | sosing stategies to investigate matematical concep | S. Prve coniectues witin the maths content taught. |
|  | Key Vocab |  |  |  |  |  |


|  |  | Lp1 | LP2 | $1 \times 3$ | LP4 | LP5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PPIC | Statisisical, Numerical \& Algebraic thinking | Numerical 8 geometrical thinking |  <br> Proporion | Statistical, Numerical \& Algebraic thinking | Numerical, algebraic \& geometrical thinking |
|  | Knowlegge | Data Cycle, Primes, factors \& multiples, Algebraic manipulation | Accuracy \& rounding, Circles, Spheres \& pyramids, right-angled triangles, Proof \& formulae, constructions \& loci, geometric proof. | Geometric proof, ratio, direct \& inverse proportion, percentage change, solving equations graphically | Solving equations algebraically, fractions \& decimals, bivariate data, Indices \& standard form, surds | Surds, inequalities, compound units, 2D \& 3D representations, non-right angles triangles |
|  | Skills |  |  |  |  |  |
|  | rov Voab |  |  |  |  |  |



|  |  | LP1 | $1{ }^{1} 2$ | ${ }^{12} 3$ |  | ${ }^{\text {LP5 }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Topic | Ratio, Proporion \& Number | Geometry, Probability \& Statistics | Algebra | Preparation for exams |  |
|  | кnowledge | Ratio \& proportion, percentages, growth \& decay, compound measures, using prime factor decomposition |  | Manipulate algebraic expressions, Equations \& inequalities, Sequences, Identify, draw \& use graphs , functions, real life graphs, kinematic formulae |  |  |
|  | skills |  |  |  |  |  |
|  | Key Vocab |  | Interior angle, exterior angle, construct, perpendicular bisector, angle bisector, loci, equidistant, chord, tangent, subtended, cyclic quadrilateral. alternate segment, area scale fac |  |  |  |

