|  |
| --- |
| **Semester 1** |
| **5.3** | EquationsMA5.3-7NA | Properties of Geometrical FiguresMA5.3-16MG | Single Variable and Bivariate Data AnalysisMA5.3-18SP MA5.3‑19SP | Circle GeometryMA5.3‑17MGMA5.3-8NA |
| **5.2** | EquationsMA5.2-8NA | Properties of Geometrical FiguresMA5.2-14MG | Single Variable and Bivariate Data AnalysisMA5.2-15SPMA5.2‑16SP | Direct/Indirect ProportionMA5.2-5NA |
| **5.1** | Revise EquationsMA4-10NA | Properties of Geometrical FiguresMA5.1-11MG | Single Variable and Bivariate Data AnalysisMA5.1-12SP | Linear RelationshipsMA5.1-6NA(5.1 students ONLY) |
| **Time** | Weeks 1-5 | Weeks 6-10 | Weeks 1-5 | Weeks 6-10 |
| **Concepts** | Solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques | Describes and applies the properties of similar figures and scale drawingsCalculates the angle sum of any polygon and uses minimum conditions to prove triangles are congruent or similarProves triangles are similar, and uses formal geometric reasoning to establish properties of triangles and quadrilateralsTASK | uses statistical displays to compare sets of data, and evaluates statistical claims made in the mediauses quartiles and box plots to compare sets of data, and evaluates sources of datainvestigates relationships between two statistical variables, including their relationship over time and using lines of best fituses standard deviation to analyse dataexplores how data is used to inform decision-making | Recognise direct and indirect proportion, and solves problems involving direct proportionapplies deductive reasoning to prove circle theorems and to solve related problems |
| **Assessment Tasks - Major** | **Assessment Task 1 – Examination open book** Notice: Term 1, Week 6Due: Term 1, Week 8 | **Assessment Task 2 – Data Assignment**Notice: Term 2, Week 4Due: Term 2, Week 6 |
| **Revision Excel book** | Chapter 1 Chapter 3 | Chapter 9 | Chapter 11 | Chapter 8 units 1-6 |
| **Semester 2** |
| **5.3** | TrigonometryMA5.3-15MG | Area and Surface AreaM A5.3-13MG | LogarithmsMA5.3-11NA | PolynomialsMA5.3‑10NAGraphs of Physical PhenomenaMA5.3-4NA | Non Linear RelationshipsMA5.3-9NAFunctions and other graphsMA5.3‑12NA |
| **5.2** | MA5.2-13MG | Area and Surface AreaMA5.2-11MG | Equations, Formulae and InequalitiesMA5.2-8NA | ProbabilityMA5.2-17SP |  |
| **5.1** | Revise TrigonometryMA5.1-10MG | Revise area surface areaMA5.1-8MG | Basic Equations | ProbabilityMA5.1-13SP | Non-Linear Relationships5.1 -7NA |
| **Time** | Weeks 1-5 | Weeks 6-10 | Weeks 1-3 | Weeks 4-7 | Weeks 8-10 |
| **Concepts** | Applies Pythagoras’ theorem, trigonometry relationships, the sine rule, the cosine rule and the area rule to solve problems, including problems involving three dimensions | Calculates the areas of composite shapes, and the surface areas of rectangular and triangular prismsCalculates the surface areas of right prisms, cylinders and related composite solidsApplies formulas to find the surface areas of right pyramids, right cones, spheres and related composite solids | solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniquesUses the definition of a logarithm to establish and apply the laws of logarithms | Calculates relative frequencies to estimate probabilities of simple and compound eventsDescribes and calculates probabilities in multi-step chance experimentsrecognises, describes and sketches polynomials, and applies the factor and remainder theorems to solve problemsdraws, interprets and analysis graphs of physical phenomena | uses function notation to describe and sketch functionsGraphs simple non-linear relationshipsDESMOS TASK |
| **Assessment Tasks - Major** | **Assessment Task 3 – Trigonometry/Area Surface Area Examination Formula Sheet** Notice Term 3 Week 6Due Term 3 Week 8 | **Assessment Task 4 – Yearly Exam**Notice Via Exam timetableDue Term 4 Week 5 |
| **Revision Excel Book** | Chapter 5 | Chapter 6 | Chapter 3 and 7  | Chapter 10 | Chapter 9 unit 6-9 |