|  |
| --- |
| S2 Maths Broad General Education Plan – Breadth, Depth, Challenge and Skills |
| August - October | October - December | January – April | April - June |
| **Learning and Teaching Focus: (E’s and O’s)**You will explore with others the practicalities of the use of 3D objects in everyday life and can solve problems involving the volume of a prism, using a formula to make related calculations when required. | **Learning and Teaching Focus: (E’s and O’s)** You will develop my understanding of the relationship between powers and roots and can carry out calculations mentally or using technology. Then explore the relationships that exist between the sides, or sides and angles, in right-angled triangles and can select and use an appropriate strategy to solve related problems, interpreting my answer for the context.  | **Learning and Teaching Focus: (E’s and O’s)***I can use the link between time, speed and distance to carry out related calculations*.*Using proportion, I can calculate the change in one quantity caused by a change in a related quantity and solve real-life problems.* | **Learning and Teaching Focus: (E’s and O’s)**Having investigated navigation in the world, I can apply my understanding of bearings and scale to interpret maps and plans and create accurate plans, and scale drawings of routes andjourneys.I can apply my understanding of the properties of similar figures to solve problems involving length and area.  | **Learning and Teaching Focus: (E’s and O’s)** *I can evaluate and interpret raw and graphical data using a variety of methods, comment on relationships I observe within the data and communicate my findings to others*In order to compare numerical information in real-life contexts, I can find the mean, median, mode and range of sets of numbers.I can select appropriately from a wide range of tables, charts, diagrams and graphs when displaying discrete, continuous or grouped data, clearly communicating the significant features of the data. | **Learning and Teaching Focus: (E’s and O’s)** Having investigated the relationships between the radius, diameter, circumference and area of a circle, I can apply my knowledge to solve related problems.Having investigated therelationship between a radius and a tangent and explored the size of the angle in a semi-circle, I can use the facts I have established to solve related problems.  | **Learning and Teaching Focus: (E’s and O’s)** I calculations mentally or using technology to evaluate whole number powers and roots, of any appropriate number. Have developed my understanding of the relationship between powers and roots and can carry out I have explored the relationships that exist between the sides, or sides and angles, in right-angled triangles and can select and use an appropriate strategy to solve related problems, interpreting my answer for the context.  | **Learning and Teaching Focus: (E’s and O’s)** Having explored how real-life situations can be modelled by number patterns, I can establish a number sequence to represent a physical or pictorial pattern, determine a general formula to describe the sequence, then use it to make evaluations and solve related problems. I can find the factors of algebraic terms, use my understanding to identify common factors and apply this to factorise expressions. |
| **Assessment Approach and typical evidence gathered:****Teacher observations, review of pupil jotters & homework.****Build 3D shape with straws/draw nets** | **Assessment Approach and typical evidence gathered:** **Teacher observations, review of pupil jotters & homework.****Create posters** | **Assessment Approach and typical evidence gathered:****Teacher observations, review of pupil jotters & homework.****Create Tarzia** | **Assessment Approach and typical evidence gathered:** **Teacher observations, review of pupil jotters & homework.****Drawing maps** | **Assessment Approach and typical evidence gathered:** **Teacher observations, review of pupil jotters & homework.****Unit assessment** | **Assessment Approach and typical evidence gathered:** **Teacher observations, review of pupil jotters & homework.** | **Assessment Approach and typical evidence gathered:** **Teacher observations, review of pupil jotters & homework.** | **Assessment Approach and typical evidence gathered:** **Teacher observations, review of pupil jotters & homework.** |
| **Key Skills:****Numeracy -** **Literacy – Be able to read and understand worded problems and find which method to solve them.****HWB – Work in a safe , calm and collaborative environment****Digital Literacy – Using Teams for homework and revision** | **Key Skills:****Numeracy -** **Literacy – Be able to read and understand worded problems and find which method to solve them.****HWB – Work in a safe , calm and collaborative environment****Digital Literacy – Using Teams for homework and revision** | **Key Skills:****Numeracy -** **Literacy – Be able to read and understand worded problems and find which method to solve them.****HWB – Work in a safe , calm and collaborative environment****Digital Literacy – Using Teams for homework and revision** | **Key Skills:****Numeracy -** **Literacy – Be able to read and understand worded problems and find which method to solve them.****HWB – Work in a safe , calm and collaborative environment****Digital Literacy – Using Teams for homework and revision** | **Key Skills:****Numeracy -** **Literacy – Be able to read and understand worded problems and find which method to solve them.****HWB – Work in a safe , calm and collaborative environment****Digital Literacy – Using Teams for homework and revision** | **Key Skills:****Numeracy -** **Literacy – Be able to read and understand worded problems and find which method to solve them.****HWB – Work in a safe , calm and collaborative environment****Digital Literacy – Using Teams for homework and revision** | **Key Skills:****Numeracy -** **Literacy – Be able to read and understand worded problems and find which method to solve them.****HWB – Work in a safe , calm and collaborative environment****Digital Literacy – Using Teams for homework and revision** | **Key Skills:****Numeracy -** **Literacy – Be able to read and understand worded problems and find which method to solve them.****HWB – Work in a safe , calm and collaborative environment****Digital Literacy – Using Teams for homework and revision** |
| **Skills for learning, work and life****Architecture/quantity surveyor** | **Skills for learning, work and life****Construction****Civil Engineering** | **Skills for learning, work and life****Engineering****Project Management** | **Skills for learning, work and life****Navigation****Construction/Architecture** | **Skills for learning, work and life****Business Management****Data Analyst** | **Skills for learning, work and life****Construction****Civil Engineering** | **Skills for learning, work and life****Science** | **Skills for learning, work and life****Statistical accounting****marketing** |