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| **Subject**  | **Year 9 Threshold Concepts – Summer Term**  | **How to support students’ learning**  |
| Mathematics  | **2D & 3D Shapes** * Find the perimeter of rectilinear shapes and composite shapes
* Know and apply the formulae for rectangles, triangles, trapeziums
* Calculate the volume of cuboids and prisms
* Calculate the surface area of cuboids and prisms

**Straight line graphs** * Solve simple coordinate problems
* Plot straight line graphs
* Find gradients and intercepts
* Find equations of straight lines
* Solve simultaneous equations graphically

**Non-linear graphs** * Plot quadratic, cubic and reciprocal graphs
* Plot graphs of trigonometric functions (Higher tier only)

**Transformations** * Describe and use the transformations reflection, rotations, translation, enlargement
* Solve problems involving a combination of transformations

 | * Encourage your child to practise drawing different 3D shapes and learn the names of the parts
* Encourage your child to use a pencil and a ruler to complete neat and accurate work
* Use [www.sparx.com](https://sparxmaths.com/)for support if needed. Teachers will have provided your child with a login and password.
* Encourage your child to complete graphs neatly and accurately
* Encourage them to learn the equation of a straight line
* Encourage your child to learn the shapes of the different graphs so that they can recognise each shape
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