

Subject	Year 9 Threshold Concepts – Summer Term	How to support students' learning
Mathematics	<p><u>Properties of Polygons</u></p> <ul style="list-style-type: none"> • Know and understand the properties of 2D shapes • Calculate interior and exterior angles of polygons <p><u>Transformations</u></p> <ul style="list-style-type: none"> • Describe and use the transformations reflection, rotations, translation, enlargement • Solve problems involving a combination of transformations 	<ul style="list-style-type: none"> • Encourage your child to name household items and recognise as shapes • Use www.mymaths.co.uk for support if needed. Teachers will have provided your child with a login and password. • Encourage your child to learn the different transformations
	<p><u>Statistics</u></p> <ul style="list-style-type: none"> • Draw and interpret scattergraphs • Calculate moving averages <p><u>Non-linear graphs</u></p> <ul style="list-style-type: none"> • Plot quadratic, cubic and reciprocal graphs • Plot graphs of trigonometric functions (Higher tier only) <p><u>2D & 3D Shapes</u></p> <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Encourage your child to learn the shapes of the different graphs so that they can recognise each shape • 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.mymaths.co.uk for support if needed. Teachers will have provided your child with a login and password.