

Subject	Year 8 Threshold Concepts – Summer Term	How to support students' learning
	<p><u>Pythagoras' Theorem</u></p> <ul style="list-style-type: none"> • Introduction to Pythagoras' theorem • Finding the longer side • Finding the shorter sides <p><u>Volume</u></p> <ul style="list-style-type: none"> • Calculate the volume of 3D shapes including prisms <p><u>Compound Measures</u></p> <ul style="list-style-type: none"> • Finding speed, distance and time • Distance/Time graphs • Time and time zones • Timetables • Practical problems <p><u>Time</u></p> <ul style="list-style-type: none"> • Time zones • Reading tables 	<ul style="list-style-type: none"> • Encourage your child to look into Pythagoras and the work he did in Mathematics. • This may be the first time your child has seen Pythagoras' Theorem so encourage them to seek help from their teacher if needed on homework tasks. • Encourage your child to show clear working out and to remember units in their answers • Encourage your child to think about where they would use speed measurements outside of the classroom. • Use www.mymaths.co.uk for support if needed. Teachers will have provided your child with a login and password. • Encourage your child to use analogue clocks, 24 hour clocks and to calculate time differences
	<p><u>Transformations</u></p> <ul style="list-style-type: none"> • Reflections • Rotations • Translations • Enlargements 	<ul style="list-style-type: none"> • Encourage your child to learn the steps for each type of transformation • Use www.mymaths.co.uk for support if needed. Teachers will have provided your child with a login and password.

	<p><u>Percentages and Interest</u></p> <ul style="list-style-type: none">• Finding percentages of an amount without a calculator• Finding percentages of amounts with a calculator• Finding simple interest• Compound interest <p><u>Coding and Problem Solving</u></p> <ul style="list-style-type: none">• Coding• Two-way tables• Problem solving	<ul style="list-style-type: none">• Encourage them to show all working out when finding percentages of amounts• Encourage your child to look at interest rates for things such as banks, loans and credit cards.• Use www.mymaths.co.uk for support if needed. Teachers will have provided your child with a login and password. • Encourage your child to look in to where coding has been used throughout history. An extra task for them would be to look at the work of Alan Turing during World War 2.
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