

Subject	Year 9 Foundation Threshold Concepts – Spring Term	How to support students' learning
Mathematics	<u>Unit 4 – Number</u> 4a. Fractions, decimals and percentages 1. Compare fractions 2. Add and subtract fractions 3. Use fractions to solve problems 4. Write one number as a fraction of another 5. Multiply whole numbers, fractions and mixed numbers 7. Divide a whole number by a fraction 8. Divide a fraction by a whole number or a fraction 9. Convert fractions to decimals and vice versa 10. Use decimals to find quantities 11. Work out divisions with decimal answers 4b. Percentages 1. Convert percentages to fractions and vice versa 2. Write one number as a percentage of another 3. Convert percentages to decimals and vice versa 4. Find a percentage of a quantity 5. Use percentages to solve problems 6. Calculate simple interest 7. Calculate percentage increase/decrease 8. Use percentages in real life situations 9. Calculate VAT	<u>Unit 4 – Number</u> ▪ Encourage your child to learn their times tables ▪ Encourage your child to have the correct equipment for lessons: pen, pencil, ruler, protractor, compass, calculator ▪ Use www.sparx.com for support if needed. Students can log in using their school email and password. Students can use the Independent Learning feature to review the work done in lessons. ▪ Classroom notes will be available on Microsoft Teams via the Class Notebook after the lesson has taken place. ▪ Encourage your child to show all their working out. When completing homework, they should write their working out in their homework book.
	<u>Unit 5 – Algebra</u> 5a. Equations and inequalities 1. Understand and use inverse operations 2. Solve simple linear equations	<u>Unit 5 – Algebra</u> ▪ Encourage your child to learn their times tables, prime numbers below 100 and square numbers up to 225 (15^2) to ▪ Encourage your child to have the correct equipment for lessons: pen, pencil, ruler, protractor, compass, calculator

	3. Solve two-step equations 4. Solve linear equations with brackets 5. Solve equations with unknowns on both sides 6. Use correct notation to show inclusive and exclusive inequalities 7. Show inequalities on a number line 8. Write down whole numbers which satisfy an inequality 9. Solve simple linear inequalities 10. Solve two-sided inequalities 11. Change the subject of a formula 5b. Sequences 1. Recognise and extend sequences 2. Use the nth term to generate terms of a sequence 3. Find the nth term of an arithmetic sequence <u>Unit 6 – Geometry (continued in Summer)</u> 6a. Properties of shapes, parallel lines and angle facts 1. Solve geometric problems using side and angle properties of quadrilaterals 2. Identify congruent shapes	▪ Use www.sparx.com for support if needed. Students can log in using their school email and password. Students can use the Independent Learning feature to review the work done in lessons. ▪ Classroom notes will be available on Microsoft Teams via the Class Notebook after the lesson has taken place. ▪ Encourage your child to show all their working out. When completing homework, they should write their working out in their homework book. <u>Unit 6 – Geometry</u> ▪ Encourage your child to learn their times tables, prime numbers below 100 and square numbers up to 225 (15^2) to ▪ Encourage your child to have the correct equipment for lessons: pen, pencil, ruler, protractor, compass, calculator ▪ Use www.sparx.com for support if needed. Students can log in using their school email and password. Students can use the Independent Learning feature to review the work done in lessons. ▪ Classroom notes will be available on Microsoft Teams via the Class Notebook after the lesson has taken place. ▪ Encourage your child to show all their working out. When completing homework, they should write their working out in their homework book.
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