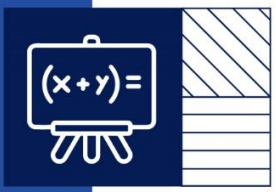
RUSKIN Community High School
Learning Together. Achieving High Standards

Maths Curriculum Map



Year	Spring			
7				
What Will Your Child Learn During This Term	**Plotting Coordinates** • Understand and use all four quadrants • Be able to draw and label axis correctly (intervals) • Being able to solve any problem with coordinates • Understanding what linear graphs is, identifying lines parallel to the axis • Understanding and being able to find the gradient of a line • Understanding x and y intercepts and being able to label coordination of interception correctly • All student should be able to identify if a line has a positive or negative gradient • Being able to plot any linear graph	**Perimeter of Shapes** • Understanding properties of different triangles and different quadrilaterals • Understanding and being able to identify regular polygons • Finding the perimeter of any shape • Using the perimeter to solve problems	**Arithmetic Procedures- Fractions** • Understanding what fraction represent • Being able to convert fluently between improper fractions and mixed numbers • Understanding fraction as a division and as a result being able to find the equivalent decimal • Understanding equivalent fractions and their uses • Comparing values of fractions and decimals (Positive and negative) • Fluency in using the four operations with fractions	**Area of Shape** • Have the ability to fluently retrieve and use the formulas for finding the areas of rectangles, triangles, parallelograms and trapezia. • Finding the areas of any compound shapes (not including circles) • Using the area and perimeter to solve problems and find missing pieces of information. • Introducing algebra in area and how it can be used in problem solving.

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Home learning/how parents can help?	**Homework** Student are given weekly homework that encourages them to use the knowledge that they have been through in high school and primary school. This is important as this allows them to retrieve previous learning and helps solidify knowledge in students' long-term memory. Students should know what day their homework will be checked and must have it when they come to that lesson.	**MyMaths** All students have access to their individual account on MyMaths: www.mymaths.co.uk Students are asked to keep their user name and password safe in their planner. They can access different lessons that we are completing in class to enhance their understanding of the learning and knowledge that they have gained.	**Schemes Of Work** All students have a scheme of work stuck in their maths books. This is a list of the topics that they will cover during the year. It is a simplified version of the steps they will cover so they can keep a track of what they have completed and what they are yet to learn.	**Presentation in Mathematics** In homework and classwork as a department we follow a very strict presentation policy and all students should be aware of it and follow it at all times. Our presentation policy is that all homework and classwork should have the questions, working out and answers. This is an important practice that will enable them to access the most marks in their exams as there is always marks allocated for working out.

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What Is The Prior Learning That Your Child Is Expected To Know	**Plotting Coordinates** • Describe positions on the full coordinate grid (all four quadrants) • Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables	**Perimeter of Shapes** • Find the perimeter of rectilinear shapes by counting squares. • Adding and subtracting integers and decimals • Converting between units • Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	**Arithmetic Procedures- Fractions** • Multiply and divide whole numbers and those involving decimals powers of 10. • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Identify, name and write equivalent fraction. • Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. • Recognise mixed numbers and improper fractions and convert from one form to the • Read and write decimal numbers as fractions • Recognise the per cent symbol (%) and understand that per cent relates to number of parts per hundred, and write percentages as a fraction with denominator 100, and as a decimal. • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Use negative numbers in context and calculate intervals across zero.	**Area of Shape** • Find the area of rectilinear shapes by counting squares. • Calculate and compare the area of rectangles • Recognise that shapes with the same areas can have different perimeters and vice versa. • Recognise when it is possible to use formulae for area of shapes. • Area of parallelograms and triangles
Home learning/how parents can help?	**MyMaths** All students will have fixed assigned tasks on MyMaths. They should use these assignments to check their prior knowledge. The class teacher will direct the students to which tasks they should complete to improve their prior knowledge. This is not part of the homework, this is extra work that students should complete to enhance their learning and increase their fluency in maths.		**Missed a Lesson** In Key Stage 3 we are using MyMaths lessons and tasks to help students catch up in the case that they have missed a lesson. This helped them to be ready to engage with their next maths lessons and increases their chance to success. The title of the lesson will be shared by the teacher and they need to find it on MyMaths and complete the lesson to enhance their learning within the classroom. Positive points will be awarded for this as it shows their resilience and high aspirations	