



**Whitworth Community High School
Mathematics Department**

Teacher in Charge/Faculty Leader: Ms Y Jan

Year Group 7/8

Organisation of the classes: Students in year 7 and 8 receive 4 hours of mathematics a week.

Students are streamed according to their ability in mathematics based on their KS scores as well as baseline assessments at the start of the year. Teacher assessments throughout the year further contributes to ensuring that our students are in the appropriate group based on their mathematics ability.

Key Concepts

The mathematics department follow a five year curriculum and this commences in the beginning of year 7 and continued into year 8 with a mastery approach focusing on mathematical fluency as well as reasoning and problem solving.

What skills do I use in this subject?

Using and applying formulae
Learning Formulae
Identifying misconceptions
Evaluating
Reasoning
Problem Solving
Justifying and explaining
Generalizing
Construction - using a protractor and compass

What will you be learning?

Students will cover the following areas;

Number
Fractions, decimals, percentages
Ratio and proportion
Algebra
Geometry

How will you be learning?

Students will concentrate on the three elements of fluency, reasoning and problem solving. The curriculum is child centred with a focus on mastery and depth and for students to develop confidence and resilience in the subject.
Students will be learning mathematics through visual, kinesthetic as well as auditory activities and tasks planned by the class the teacher.

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| <p>How will your learning be assessed?</p> <p>Students are assessed regularly with low stakes fortnightly fluency checks in addition to end of term reasoning and problem solving assessments.</p> <p>End of Year Summative Examinations Paper 1 (1 hour) - Non Calculator Paper 2 (1 hour)- Calculator</p> | <p>Home Learning</p> <p>Home Learning is primarily set on Hegarty.com though class teachers may also set additional written home learning to reinforce, consolidate and review knowledge, skills and understanding. It is a requirement that the Hegarty Maths video is watched and students make notes on what they have watched as well as making notes in the process before attempting the quiz questions. This quiz is automatically marked and a percentage is provided. Students are able to feedback to the class teacher should they require additional support.</p> <p>Home learning booklets will further provide consolidation for mathematical fluency.</p> <p>Revision for upcoming assessments is encouraged by searching the topic on Hegarty Maths and watching the video making notes and going through the worked examples before attempting the quiz questions.</p> <p>It is expected that students do at least 30 minutes of mathematics daily to ensure retention and progression of key concepts and skills.</p> |
| <p>Equipment needed? Casio Calculator Geometry Set including protractor and compass</p> | <p>How can your parents support your learning?</p> <p>Regular practise of times tables and mental arithmetic are fundamental to achieving in mathematics and we have an expectation that parents encourage and support the completion of good quality home learning.</p> |
| <p>SMSC Links – Focus on Aspirations</p> <p>Pi Day The history of mathematics in Islam and across the world relating to RS Famous mathematicians - Euler, Pythagoras</p> | <p>What extra-curricular activities or enrichment opportunities are available?</p> <p>UKMT Mathematics Challenge Drop in clinic a every lunch time in L1 (Chromebooks available)</p> |