

# Abbeyfield School

## AIM Programme



**KS3 Able, Inspired & Motivated Programme**

**Subject: Maths**

**Year: 9**

The AIM Challenge

- Complete the Challenge tasks over the course of this academic year, submit to your subject teacher and you will achieve the AIM programme award in this subject.

Term	Challenge Task Title	Task Description
Term 1	Maths Command Words	Write a Mathematical question for as many of the word as you can in the link below (a minimum of eight)  <a href="https://www.aqa.org.uk/resources/mathematics/gcse/mathematics-8300/teach/command-words">https://www.aqa.org.uk/resources/mathematics/gcse/mathematics-8300/teach/command-words</a>
Term 2	Intermediate Maths Challenge	Complete questions 1 – 15 from the 2019 IMC paper.
Term 3	Intermediate Maths Challenge	Complete questions 16 – 25 from the 2019 IMC paper.
Term 4	Tet - Trouble	<p>Is it possible to have a tetrahedron whose six edges have lengths 10, 20, 30, 40, 50 and 60 units?</p> <p>Is it possible for a tetrahedron to have edges of lengths 10, 20, 25, 45, 50 and 60 units?</p> <p>Can you write a set of general rules for someone else to use to check whether a given six lengths could form the edges of a tetrahedron?</p>
Term 5	Estimation	Work out an estimate for cost of filling your Maths classroom with marshmallows. Stating all of you assumptions you have used and showing all of your working. If you have questions see your Maths teacher.



# Dream big, AIM high



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Term 6	Standard deviation.	Research what standard deviation is and how you calculate it, your piece of work must include a worked example of a calculation and an interpretation of what your answer means.
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