



*Welcome to  
Beal High School*

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THE MATHS DEPARTMENT ACTIVITY

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# Welcome to year 7 from the Maths department



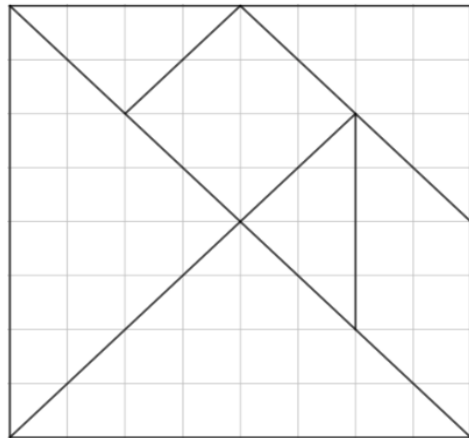
The Maths department is one of the biggest departments in the school. We have many experienced teachers (some are in the picture above) who are looking forward to starting your journey of maths at secondary school. The Head of Maths is Mr Raja and the KS3 Coordinator is Ms Khan.

# The Year 7 Maths Curriculum

- Over the course of year 7 we will be teaching you a broad curriculum covering all five categories of maths: Number, Algebra, Ratio and Proportion, Geometry and Measures, and Statistics & Probability. Every term you will cover, with your class teacher, different topics from the five categories. In the first term you will recap and extend many of the topics you were learning in year 6.
- In year 7 you will have seven, one hour lessons of maths timetabled over a fortnight. In years 8 and 9 it changes to six lessons and in years 10 and 11 you have 8 lessons a fortnight. In year 7 there are 4 sets, with set 1 being the highest. We aim to have you in a group where other students are a similar level to you, so we can give you the right support to help you become the best mathematician that you can be. You will begin in mixed ability groups and at the end of every term you will have setting exams which will give you an opportunity to move up or down sets.
- We aim to make our lessons engaging and interactive and encourage all our students to become strong independent learners that are able to take their puzzle solving skill learnt in maths and apply them to real life applications.
- We look forward to meeting you in September.

# The Maths Tangram Activity

- A tangram is an ancient Chinese puzzle where you make pictures using mathematical shapes.
- Make a set of tangram pieces from squared paper as shown below:



## Task

- Design some Tangram pictures of your own by cutting out the shapes. You have to use all seven shapes to make as many different pictures as you can.
- Stick your favourite picture on to an A4 piece of paper. Colour it in.
- We cannot wait to see your pictures on the first maths lesson!!
- You can try some more tangram puzzles in the [World of Tan](https://nrich.maths.org/14074) problems. Use the following link:  
<https://nrich.maths.org/14074>