

# Mathematics Curriculum Guide

## Year 9

### What will my son learn?

#### Autumn term

- Your son will start the year learning how to use indices and how to collect and use statistics. He will also spend time studying algebraic manipulation and develop his understanding of fractions.

#### Spring Term

- After the winter break your son will study proportional reasoning, algebraic graphs and look in detail at geometric constructions and properties. Depending on his ability he will also look at margins of error and inequalities.

#### Summer Term

- In the summer term you son will look at probability and either transformations or trigonometric ratios. There will also be some time dedicated to developing his problem solving ability and recapping areas of weakness based on the work he will have done over the year. He will also be looking at some GCSE content in preparation for the year 10.

### How will my son be assessed?

- He will have a set of key skills assessed as part of online testing. These skills have been identified as crucial to the foundations of his mathematical understanding and he must have mastered all of them by the end of the year.
- He will have end of unit tests at the end of each topic of learning. These are to inform both your son and his teacher about his individual understanding and grasp of the concepts he will have been learning.
- At the end of each half term he will have an assessment that looks at a variety of skills that he should have both from that particular half term but also more generally. This information will be inputted into an online database that will, over the course of your son's education, build up a detailed picture of what he is and is not able to do.

### How can I support my son with Mathematics?

- Ensure that he is doing his homework regularly.
- Encourage him to seek help either from yourself, his teacher or online resources to address areas of weakness.
- Look at what skills he is lacking on Doodle and work with him on those skills using online Virtual learning platforms Mathswatch, Gcse pod and PIXL6.
- Try to involve him in areas where you use Mathematical reasoning and explain it to him.
- Make sure that he is properly equipped for every lesson.

