

# Cardinal Heenan Catholic High School

## Mathematics Department



2018



# Welcome

Thank you for your interest in joining the Mathematics Department at Cardinal Heenan Catholic High School.

With achievement in Mathematics continuing on an upward trajectory, it is a great time to join a department that is focused on developing pupils' aspiration in achieving their full academic and personal potential.

You will be joining a committed team of mathematics specialists that work in an environment that values creativity with a commitment to strong teaching and learning of Mathematics. This is an outstanding opportunity for an experienced or Newly Qualified Teacher to continue their professional development in an extremely supportive team.

We ensure that the aims of the curriculum are embedded throughout the curriculum so that students learn to:

- Become fluent in the fundamentals of mathematics
- Reason mathematically
- Solve problems by applying their knowledge of mathematics

What makes us unique is the way that we meet these aims; ensuring an atmosphere where all students are inspired, encouraged and supported to the highest levels of educational achievement.

Daniel Mangan

Director of Mathematics and Numeracy





# Results

In June 2017 pupil achievement and attainment in Mathematics was above average both nationally and above the local authority average.

+0.34

Mathematics Progress 8 score

10.4

Mathematics Attainment 8 score

83%

Mathematics 4+

63%

Mathematics 5+



# Extra-Curricular

We have a wide range of STEM activities throughout the school year including:

- Legal and General Everyday money workshop
- Nestle Enterprise challenge
- Morrisons in Schools
- Dragons Den Enterprise Competition
- Festival of Science
- Stock Market Challenge
- Grant Thornton Maths Challenge
- Puzzle Pandemonium
- Chess Club
- Engineering events
- UKMT Team Maths Challenge
- UKMT individual challenges



# Programme of Learning

KS3 pupils follow a scheme of work that covers the content required by the National Curriculum Mathematics Programme of Study. It builds upon the “Expected Standard” required by the end of KS2 and allows time in Year 7 for consolidation of topics that have not been fully embedded at KS2. There is a transition period in the first term of Year 9 where pupils cover topics that will aid their progress at KS4.

Schemes of work are differentiated to ensure pupils meet the “Expected Standard” from the National Curriculum Programme of Study by the end of KS3 and good progress is made to upon finishing KS4 (AQA 8300). Higher attaining students are provided with teaching that allows pupils to meet the “Expected Standard” whilst facilitating opportunity to experience content at a deeper not just further level.

There is an expectation that staff differentiate for pupils in all sets. Lower attaining students should make progress towards the “Expected standard”. It is each classroom teacher’s responsibility to familiarise themselves with the SEND register and the relevant recommendations that are included in the IEPs.

In Year 8-11 the Bands are combined to create setting from 1 to 7. Schemes of work are differentiated to ensure good progress is made by all and include the following ‘Layers’:

## Layer 1 - Year Plans

When each unit should be taught across the year.

## Layer 2 - Breakdown of each unit

Includes specific guidance into what is to be taught in each unit e.g. new learning, previous knowledge and suggested questions.

## Layer 3 - Resources

The breakdown of each unit includes pedagogical notes, key words and suggested questions. Many resources can be found in the Resources folder on the Mathematics Curriculum Area. Layer 3 is an aspect that is, and always should be, updated with the most up to date resources that will enhance pupil progress. All teachers should make every effort to share good resources that meet the aims of the Mathematics Curriculum with other members of the team.





# Resources

The Mathematics Department has dedicated teaching rooms which are all equipped with interactive whiteboards. We have two sets of portable classroom laptops and have access to the school's suites of networked computers. We also have a selection of online resources that can be used by pupils to revise, complete homework and further their understanding of mathematics.



## Staffing

A team of specialist teachers dedicated to creating an atmosphere where each person is inspired, encouraged and supported to the highest levels of educational achievement.

Name	Role
Mr Daniel Mangan	Director of Mathematics and Numeracy
Miss Coral Griffiths	Assistant Curriculum Leader of Mathematics and Numeracy
Miss Angela Millington	Teacher of Mathematics and Achievement Leader (Year 9/10)
Miss Kirsty Russell	Teacher of Mathematics
Mrs Lisa Corcoran	Teacher of Mathematics
Miss Heidi Schiedermeier	Teacher of Mathematics
Miss Krystina Mawer	Teacher of Mathematics
Mrs Rebecca Brumskill	Cover assistant/HLTA (Mathematics)
Miss Keshia Starrett	Teaching Assistant