

# MATHEMATICS

## MATHEMATICS AT BRYNTIRION

Mathematics is the study of relationships and pattern in number and space and their application to a variety of problem-solving activities.

It is an important and unique means of communication. It develops skills, which have a wide range of application, and it encourages logical, imaginative and creative thinking.

## ASSESSMENT

Assessment is an integral part of the teaching process. Formal assessment is also carried out through class tests, homework tasks (on paper and computer) and investigative tasks.

## HOMEWORK IN YEAR 7 AND YEAR 8

The introduction of the Literacy and Numeracy tests at the end of every year have helped us develop a brand new set of homeworks for the coming year. These homeworks will help develop the numeracy skills that will help the pupils later on in their mathematical careers. We are also continuing to use MyMaths for specific online homework. The MyMaths website is also an incredible tool for parents to have an active part in their children's education.



YEAR 7 VISIT TO  
TECHNIQUEST



## MYMATHS

Bryntirion Maths department subscribes to this excellent educational website. To try out this resource type in [www.mymaths.co.uk](http://www.mymaths.co.uk). The school's username is bryntirion and this year's password is triangle. All pupils will be given their individual login and passwords when they start in Year 7, which parents can use to regularly check and see the online homeworks set. Pupils and parents can also use MyMaths to help study and practise topics covered in school using MyMaths lessons.

## EQUIPMENT

Scientific calculator - Casio model.



# MATHEMATICS

## YEAR 7 & 8 TOPICS

### NUMBER

- Number Facts
- Four Rules with Decimals
- Money
- Fractions, Decimals, Percentages
- Ratio

### SHAPE AND SPACE

- Measuring
- Angles
- Area, Perimeter and Volume
- Properties of Shape
- Transformations

### ALGEBRA

- Negative Numbers
- Simplifying Algebra
- Constructing Problems
- Solving Equations
- Number Patterns & Graphs

### DATA

- Averages
- Probability
- Graphs & Charts

## YEAR 9, 10 & 11

Pupils at Bryntirion Comprehensive School start their Numeracy and Mathematics GCSE's in Year 9. This encourages pupils to attain better results in their GCSE's by giving them more time to digest and practise the content. Most pupils will sit their GCSE Maths Numeracy in November of Year 11 and then their GCSE Maths in the Summer of Year 11. Pupils in Year 10 Set 1 usually have the opportunity to sit both GCSE's early at the end of Year 10.

There are three tiers of entry for Maths and Numeracy GCSE's:-

Higher - possible grades A\*, A, B, C & U

Intermediate - possible grades B, C, D, E & U

Foundation - possible grades D, E, F G & U

Pupils test and exam results in Year 9 and 10 will determine their tier of entry.

In Year 11 we currently have students who have achieved their grades, and are now studying Statistics and Additional Maths. This is a huge opportunity for those pupils as it will prepare them for A level and set them apart in competition for jobs and university places.



### Extra Opportunities

We are committed to providing excellent teaching and learning for all our pupils. More able and talented pupils are continuously challenged in class with enrichment activities. In Years 7 to 10 pupils also participate in the UKMT Maths Challenges. Junior and Senior Teams also attend local competitions. MAT pupils are identified in KS3 and invited to attend after school sessions where they are given the opportunity to work together on challenging tasks and activities. Year 10 pupils have the opportunity to take on a mentoring role in these sessions as well as participating in their own challenges. Out of school activities include a Year 7 trip to Technquest, a Year 8 trip to @Bristol as well as opportunities for Year 9 and 10 pupils to attend masterclasses at the University of South Wales.

