



# Mathematics

In Mathematics, you will develop your problem-solving skills and your ability to present logical arguments. You will be better able to use what you learned in Mathematics in real life situations in everyday life and work.

## What will I learn in Mathematics?

Some of the things you will learn include:

- sets
- number systems
- algebra
- functions and graphs
- trigonometry
- geometry
- statistics
- applied arithmetic and measure.



## How will I learn Mathematics in school?

Some of the things you may do with your teacher and your classmates are:

- use computer simulations
- do *hands-on* activities with *real-life* materials
- use a text book and answer maths problems
- take part in project work.

Some other things that will help you learn in class are:

- asking questions
- solving maths problems for yourself
- keeping your work organised in an exercise book or file.

## How can I learn more about Mathematics outside of school?

Some of the things you may do are:

- take part in mathematical challenges such as *Prism* or *Hamilton Maths Challenge*
- improve your mental arithmetic by using maths computer software
- get involved with some of the activities that are organised within the community for *National Mathematics Week*
- enter a project in *SciFest* or *The BT Young Scientist and Technology Exhibition*.



## How will I know how I am getting on?

Your teacher will let you know:

- what you have done well
- how you can improve your work.

Other things you may do are:

- ask a friend to look at your work
- try some questions from past examination papers
- try some of the revision quizzes.



## Is learning Mathematics anything like what I did in primary school?

You will already have learned about number, algebra, shape and space, measures and data in mathematics in primary school. Junior Certificate Mathematics aims to build on this. Many Junior Certificate Mathematics teachers use practical work and real-life materials in their classrooms. Students often take part in investigations and project work. This is similar to the way you learnt Mathematics in primary school.

## How will Mathematics be useful to me?

Studying mathematics prepares you for business calculations, for handling your money sensibly and for courses in sciences, engineering and technology. You should see mathematics as an opportunity to strengthen your thinking skills.

## What is the Mathematics Junior Certificate exam like?

Ordinary and Higher level students will sit two written exam papers each consisting of six questions. Foundation level students will sit one written exam paper consisting of six questions.

You can take the exam at Higher, Ordinary or Foundation level. When the time comes to decide, your teacher will help you choose the level that suits you best.

## Will Mathematics have anything to do with other subjects I will be studying?

You will find links with several subjects, such as Science, Geography, Business and the technology subjects, where a good knowledge of mathematics will be of great value to you in working out equations, distances, calculations and formulae.



## Will Mathematics be very different after the Junior Certificate?

In Leaving Certificate Mathematics, you will meet the same topics as you did in Junior Certificate, but to a greater depth, as well as some extra topics.



For more information about the Mathematics course  
[www.curriculumonline.ie](http://www.curriculumonline.ie)

For more information about the Junior Certificate exam

[www.examinations.ie](http://www.examinations.ie)

For more information about mathematics  
[www.skool.ie](http://www.skool.ie)

[www.maths.nuigalway.ie/PRISM](http://www.maths.nuigalway.ie/PRISM)

[www.hamilton.ie/mathschallenge](http://www.hamilton.ie/mathschallenge)

This fact sheet and other fact sheets are available to download from [www.ncca.ie](http://www.ncca.ie)

**NCCA**  National Council for Curriculum and Assessment  
An Chomhairle Náisiúnta Curaclaim agus Measúnachta

24 Merrion Square, Dublin 2 | Tel: + 353-1-6617177