

## 2<sup>nd</sup> Year Subject Options

*The following is a list of the optional subjects for Junior Certificate with an outline of what this subject entails.*

### Metalwork



- There is both a practical and theory element to metalwork.
- The theory part involves learning about the properties of metals and plastics, tools, machinery, mechanisms and electronics.
- The practical part involves learning to assemble and join components
- There are 4 classes a week; 3 practical and 1 theory
- In the Junior Certificate exam 50% is theory and 50% is practical (25% project, 25% exam)
- Careers metalwork is useful for are:

### Woodwork



- Woodwork involves learning and understanding wood and its properties. Traditional and modern jointing techniques are learned as are timber product design skills for example making a CD stand or a music centre frame.
- 50% of the course is practical
- 50% is theory
- Woodwork is a useful subject for careers in carpentry, furniture design, manufacturing, product design, joinery, Woodwork teaching, engineering (civil, plastics), road geometry.

## Technical Graphics



- The basis of technical graphics is to learn how to solve problems using spatial visualization, mathematics, and draughting skills.
- There are some very useful skills learned in T.G. for example C.A.D. (computer aided design) as IT is an essential skill for a number of careers
- The course is ALL-practical.
- It involves use of CAD and drawing.
- The subject is most useful for careers like civil engineering, computer software engineering, architecture, and architectural technician.

## Home Economics



- Home Economics is a mixture of theory and practice
- Food and Culinary skills practical is worth 35% of exam.
- Project work/craft skills is worth 15%
- Home Economics is a very useful and practical subject and is useful as a basis for many careers ie. Sociology, chef, dressmaking, hotel and catering management etc.

## Science



- Science is the study of the world around us and how it works. It is divided into 3 sections; biology, chemistry, physics.
- **Biology** is the study of living things – both plant and animal life.
- **Chemistry** is the composition of substances, their properties and reactions.
- **Physics** is the study of matter and energy and how they interact with each other.
- **Coursework A:** 10% is a lab notebook with a record of experiments for assessment (completed in 2<sup>nd</sup> and 3<sup>rd</sup> year)
- **Coursework B:** 25% is the investigative project (completed in 3<sup>rd</sup> year)
- The final written exam is then worth 65% which has a section on each of the three areas.
- **NOTE It is not possible to take up a science subject for Leaving Certificate if science not taken to Junior Cert.**
- Careers that science is both a **requirement** for and useful for are listed below.

## Music



- Suitable choice for a student who shows an enthusiasm and interest in music
- Is useful if you can play an instrument but you will learn the recorder in class.
- It has both theory and practice.
- The theory involves melody writing, listening skills and the study of various songs/musical works in detail.
- The practice involves singing in class, learning to play the recorder and being involved in the school choir.
- 25% is based on practical in exam.
- A great subject for giving student confidence.

## Art



- Art is for the student who enjoys making things, drawing and painting.
- Students are taught: lino print, ceramics, collage, puppet making and packaging among other things.
- Project is 75% of the exam and is done in class from Oct – April of 3<sup>rd</sup> year.
- 25% is the final drawing exam in May.
- All practical!
- **Careers:** art is useful for architecture and is necessary for graphic design, fashion design, art teaching, artist, computer animation etc.

#### List of Science based careers

Medicine\*

Pharmacy

Radiography

Physiotherapy

Dietetics

Science

Veterinary\*

Forensic Science

Environmental Science

Nursing

Occupational Therapy

Speech and Language Therapy

Optometry

Sports Science

Med Lab Science

Information Technology

Beauty Therapy

...and more