

## Practical Work

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This is an fundamental component of any Geology course and takes the form of laboratory work in College and several days fieldwork. Fieldwork is essential to understanding the subject and all students take part in both residential and day fieldwork courses in Anglesey and a variety of other locations. The Coursework will be based on this practical work.

## Entrance Requirements

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Very few students have studied Geology before, therefore the course is taught assuming no previous knowledge of the subject.



## Subject Combinations

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Geology combines well with most subjects. It depends whether you wish to follow a career in Geology or are taking the subject through general interest. If you are unsure, then ask.

## Career Areas

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Exploration and Mining; Environmental Planning and Management; Environmental Pollution Control; Civil Engineering; Geological Survey; Hydrology; Resource Management; Geophysics; Geochemistry; Oceanography as well as Business, Finance, Teaching, Management, etc.

If you want to know more about Geology contact either:

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Mr W. Spencer  
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AQUINAS COLLEGE

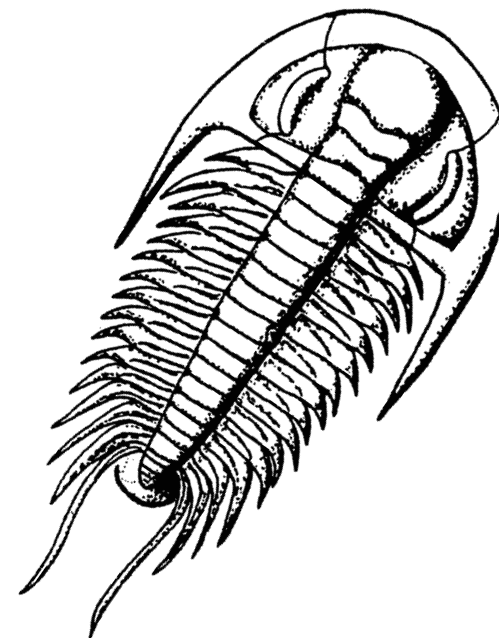
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# Geology

## Information

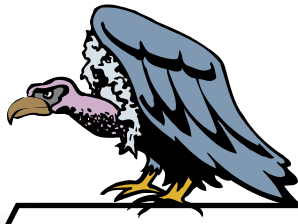


# What is Geology ?

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Geology is the science of the Earth, from the surface to the inner core. It involves the study of processes and life-forms that have helped to shape the planet on which we live. Geology is very relevant to our everyday activities. We are constantly reminded in the press and on TV of geological events, such as earthquakes and volcanic eruptions. However, geologists also make a contribution to everyday life through their work in locating fuels, such as North Sea Oil and Gas and valuable minerals, such as tin or copper.

Many geology students find that the most interesting aspect of the subject is the ability to look at any landscape and explain to the untrained, the forces that carved it out to its present form.



**WANTED**  
GEOLOGY STUDENT NEEDED.  
NO PREVIOUS EXPERIENCE REQUIRED  
APPLY WITHIN

## Course Outline

6 units — 3 for AS and 3 for A2:

### AS Level

#### Foundation Geology is organised into:

- Matter - the global structure of the Earth and the composition of the crust.
- Energy - the Earth's energy sources and processes, which produce minerals, igneous, sedimentary and metamorphic rocks and the movement of the plates.
- Time and Change - the geological record of rocks and fossils and the dating of geological events.

#### Investigative Geology - geological techniques and skills

- Using the material from Foundation Geology, this Unit consists of Fieldwork, a minimum of 3 days; laboratory work and problem-solving exercises.

#### Geology and the Human Environment is divided into:

- Natural Geological Hazards - volcanic, earthquake and mass movement.
- Prediction and Control of - volcanic, earthquake and mass movement hazards
- Hazards resulting from Human Activity - waste disposal, water supply, mining.
- Engineering Geology - geological factors involved in the construction of dams, reservoirs, cuttings, tunnels, buildings.

### A2 Level

#### Investigating the Geological Record

- Rock forming Processes - detailed study of the rock cycle.
- Rock Deformation - types of stress and the resultant rock structures.
- Use of Fossils - the fossil record; the succession of life; palaeogeography.

#### Geological Map Interpretation

- interpreting and applying information from geological maps, photos and specimens.

#### Geological Themes

- Quaternary Geology - evidence of major climatic change; conditions in the UK.
- Evolution of Britain - the geological history of the UK.

**Geological Investigations** - laboratory work in College and 6 days fieldwork.

#### Preferred Entry Requirements

5 GCSEs at grade C or above including Mathematics and English. No previous knowledge of Geology is required.

