



Geology



What is geology?



- Geology is the scientific study of the Earth and its history
- Provides crucial information on the nature of earth materials and processes
- Central to our understanding of the environment, raw materials and natural hazards such as earthquakes and volcanoes



Why might you consider Geology at A Level?

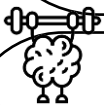
- You enjoyed the physical side of Geography
- You enjoyed parts the Earth Science elements of your science lessons
- You would like to continue with a science but don't feel you would like to study one of the traditional science subjects to a higher level
- You are looking for a totally new subject to follow

What will you cover?

Specification: OCR

| YEAR 12 | | |
|-----------------|--|--|
| MODULE 1 | Development of practical skills in geology | Developed through Y12 and Y13 through practical work/fieldwork |
| MODULE 2 | Foundations in geology | Minerals and rocks Fossils and time |
| MODULE 3 | Global tectonics | Earth structure Plate tectonics Geological structures |
| MODULE 4 | Interpreting the past | Sedimentary environments in time Geochronology |

| YEAR 13 | | |
|-----------------|--|---|
| MODULE 1 | Development of practical skills in geology | Developed through Y12 and Y13 through practical work/fieldwork |
| MODULE 5 | Petrology and economic geology | Fluids and geological processes Igneous petrology Metamorphic petrology Mining geology |
| MODULE 6 | Geohazards | Geohazards Engineering geology |
| MODULE 7 | Basin analysis | Key concepts for basin analysis Basin analysis in practice |



How will I be assessed?

- Examinations in Geology are all synoptic, meaning they cover all the content of the course
- Total of 6 hours of examinations
- 3 papers in total
- Wide range of question types which include multiple choice, short answer and extended response questions

| Paper title | Marks available | Length | % of total A Level |
|---|---------------------|-------------------------------------|--------------------|
| Component 1 Fundamentals of geology | 110 | 2 Hours 15 minutes Written paper | 41 |
| Component 2 Scientific literacy in geology | 100 | 2 Hours 15 minutes Written paper | 37 |
| Component 3 Practical skills in geology | 60 | 1 Hour 30 minutes Written paper | 22 |
| Component 4 Practical endorsement in geology | Non exam assessment | Completed throughout Y12 and Y13 | |

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