

A Level Geology

Component 1: Geological Investigations

Written examination: 2 hours 15 minutes

35% of qualification

Section A: Two stimulus response questions requiring short and structured answers.

Section B: An investigation of the geology of an area shown on an accompanying simplified geological map, involving

- the interpretation of hand specimens and photographs of minerals, rocks and fossils
- map interpretation and cross-section construction
- the completion of questions using short, structured and extended answers.

Component 2: Geological Principles and Processes

Written examination: 1 hour 45 minutes

30% of qualification

Six stimulus response questions requiring short, structured and extended answers.

Component 3: Geological Applications

Written examination: 2 hours

35% of qualification

Section A: Geohazards. Two stimulus response questions requiring short and structured answers.

Section B: Geological map applications. An investigation of the geology of an area shown on a Geological Survey map extract using stimulus response questions requiring short, structured and extended answers.

Section C: Learners answer questions on one option from a choice of three. Each comprises three questions requiring short, structured and extended answers.

- **Quaternary Geology**
- **Geological Evolution of Britain**
- **Geology of the Lithosphere**

Practical Endorsement

Non-exam assessment

Assessment of practical competency.

Reported separately and not contributing to final grade.

A Level Geology

Geology A level will provide you with the skills for many vocations, not just geological, which require initiative in thought and problem solving. Geology literally means the study of the Earth and if that's not important what is?

Entry Requirements

This A level builds on prior knowledge from GCSE in science and maths, therefore it is important that you have good results from both.

Ideally I look for 5 GCSEs graded 9-5, including English Language, Maths and Science (single sciences or double award).

How you will be assessed

There is no coursework, however your practical will be assessed.

Full A Level: There are three exams at the end of the 2 years. AS Level: Two exams of 1 hour 30 minutes: Foundation Geology and Geological Enquiries.



Geology residential fieldtrip to Iceland

Topics you will study

Fundamentals of Geology

- Elements, minerals and rocks
- Surface and internal processes
- Time and change
- Earth structure and global tectonics

Interpreting the Geological Record

- Rock forming processes
- Rock deformation
- Past life and past climates
- Earth materials and natural resources

Geological Themes

- Geohazards
- Geological map applications
- Quaternary geology*
- Geological evolution of Britain*
- Geology of the lithosphere*

**Students study one of the option topics*

Fieldwork

Students are required to complete a minimum of **four** days' fieldwork to develop field observation and practical skills. In the last 3 years' students have visited rock exposures at Saltwike Bay, Staithes, and Whitby. Regional trips to the Lake District have included: Skiddaw, Eden Valley and Mardale. **International field trips to Iceland and Sicily and the island of Volcano.**

A Level Geology

Possible degree courses and future career options

- Applied Geology, Palaeobiology, Palaeoecology
- Earth and Ocean Science, Geological Hazards, Civil & Coastal Engineering
- Engineering Geology/Geophysics, Hydrogeology
- Material Science / Mining Engineering
- Environmental Engineering, Environmental Management and Planning
- Chemical Engineering with Oil and Gas Technology, Soil Science, International Development and many more!



Practical Work and Scientific skills

Practical work is an intrinsic part of this course and fundamental to students studying science.

You will complete 20+ specified practicals through the course and achieve a practical endorsement qualification which references your scientific ability.

38% High Grades

100 % Pass Rate

**Outstanding Value Added
ALPS 3**

Please contact me on this email if you have any questions: j.glasby@mbro.ac.uk