

Revision Plan – Geology GCSE

Dates of Exams:

Monday 20th May PM – Paper One (On
Screen Exam) 1hr15min

Friday 24th May AM – Paper Two 1hr30min

<p>21st Jan – 25th Jan</p>	<p>Minerals</p> <ul style="list-style-type: none"> • What they are • How they form (different types) • How to identify them (data sheet)
<p>28th Jan – 1st Feb</p>	<p>Igneous Rocks and Processes</p> <ul style="list-style-type: none"> • Diagnostic Properties (Crystal Size etc..) • Peridotite, Andesite, Granite, Basalt. • Magma Viscosity & Type of Volcanics • Intrusive and Extrusive features
<p>4th Feb – 8th Feb</p>	<p>Sedimentary Rocks, Processes and their fossil content</p> <ul style="list-style-type: none"> • Diagnostic Properties (grain size and shape etc..) • Breccia, Conglomerate, Sandstone Shale, Evaporates & Limestone • Sedimentary Environments • Sedimentary Structures • Fossils – Coral, Trilobite, Plant & Trace Fossils
<p>11th Feb – 15th Feb</p>	<p>Metamorphic Rocks</p> <ul style="list-style-type: none"> • Causes & Types of Metamorphism • Slate, Schist, Marble, Metaquartzite • Metamorphic Mineralogy

<p>25th Feb – 1st March</p>	<p>Deformation Structures – Structural Geology</p> <ul style="list-style-type: none"> • Links to tectonic activity • Folding • Faulting • Unconformities
<p>4th March – 8th March</p>	<p>The Rock Cycle</p> <ul style="list-style-type: none"> • Physical Processes that link rock types
<p>11th March – 15th March</p>	<p>Plate Tectonics</p> <ul style="list-style-type: none"> • Structure of the earth • Movement of plates • History of Plate tectonics
<p>18th March – 22nd March</p>	<p>Plate Tectonics</p> <ul style="list-style-type: none"> • Boundary Types & Characteristics
<p>25th March – 29th March</p>	<p>Geochronological Principals</p> <ul style="list-style-type: none"> • Uniformitarianism • Evolution of fossils – correlating/dating • Absolute Dating • Relative Dating (cross cutting etc..)

**1st April – 5th
April**

Global Climate and Sea Level Change

- Evidence through time
- Latitude of the UK over time
- Sea Level Change & Evidence
- Carbon Dioxide & GW
- Evidence of CO₂ levels
- Feedback Loops (Albedo etc...)
- Ice sheets & Sea Level Change
- Carbon Capture Schemes.

**8th April – 12th
April**

The Origins & Development of Life on Earth

- The Origin of Life – Black Smokers
- Evolution of Life over time
- Mass Extinctions
- Major Fossils
 - Burgess Shale
 - Missing Link Fossils
 - Archaeopteryx & Lucy
 - Complex and Disarticulated Fossils

**29th April – 3rd
May**

Planetary Geology

- **Similarities & Differences between Earth and it's neighbours**
- **Meteorites**
- **Using geological principals on earth of interpret processes on other planets and the moon.**

**6th May – 10th
May**

Earthquake & Volcanic Hazards & Mitigation

- **Earthquakes**
- **Volcanic Eruptions**
- **Pyroclastic Flow, Lahars & Landslides**
- **Tsunami**
- **Population Density**
- **Mitigation – Buildings**
- **Development**
- **Ground Deformation/Monitoring/Education/Preparation**

**13th May – 17th
May**

Earth Resources & Engineering Geology (Economic Geology)

- **Natural Resources**
- **Calculating volumes of resources & %'s**
- **Uses of Minerals**
- **Exploration techniques – Mapping, Boreholes, Magnetic Survey etc..**
- **Oil and Gas Traps/Reservoirs**
- **Environmental Issues of Oil and Gas**
- **Water Extraction & Aquifers**
- **Waste Disposal**
- **Geological Engineering – Benching/Sprayed Concrete etc...**

**20th May – 24th
May**

Final Prep/Exam Practice – EXAMS THIS WEEK