**Year 11 – 12 Geology Transition – Preparation for A Level**

**Although Geology is a new subject at Key stage 5 some of the content will be familiar to you through your Science lessons and the physical side of Geography if you did this as an option for GCSE.**

**Eg**

**Biology: Fossils and evolution**

**Chemistry: States of matter, phase diagrams**

**Physics: Earthquakes, origin of the Solar System**

**Geography: Plate tectonics**

**Activities:**

**Try some of these animated activities, they will give you an idea as to what to expect on the course**

**Magma formation and crystallisation:**

[Magma formation](http://webgeology.alfaweb.no/webgeology_files/english/magmatism.html)

Very clear animation in the magma, lava and crystallisation and the magma formation section which contain just the right level of detail and explanation to be accessible to KS5 learners.

**Biostratigraphy**

[Biostratigraphy](http://webgeology.alfaweb.no/webgeology_files/english/geol_time_eng.html)

In the fossils and depositional ages section is an animation to show how fossils can be used to date the rocks they are contained in, animation uses trilobites, brachiopods and corals.

**Stratigraphy**

[Stratigraphy](http://basin.earth.ncu.edu.tw/download/courses/sequence_strat/4_biostratigraphy.pdf)

Detailed account of biostratigraphy including numerous definitions, examples and case studies. Includes background to classification and average species length of time which is linked to suitability as a zone fossil.

**All the energy in the Universe is...: Ted ed**

[Ted Documentary](http://ed.ted.com/lessons/all-of-the-energy-in-the-universe-is-george-zaidan-and-%20charles-morton)

Discusses the concept that the total energy in the Universe cannot change, a wide range of energy changes discussed in an accessible manner.

**Online Learning:**

**Find out what Geology is really like by registering for one or more of the free short courses offered by the Open University.**

**Earthquakes**

[Earthquakes](https://www.open.edu/openlearn/science-maths-technology/geology/earthquakes/content-section-0?active-tab=description-tab)

**An introduction to geology**

[Introduction to geology](https://www.open.edu/openlearn/science-maths-technology/introduction-geology/content-section-overview?active-tab=description-tab)

**Plate tectonics**

[Plate tectonics](https://www.open.edu/openlearn/science-maths-technology/science/geology/plate-tectonics/content-section-0?active-tab=description-tab)

**Volcanic hazards**

[Volcanic hazards](https://www.open.edu/openlearn/science-maths-technology/geology/volcanic-hazards/content-section-0?active-tab=description-tab)

**Museums:**

**If you have the opportunity over the summer consider visiting one or more of the following:**

**Lapworth Museum, University of Birmingham**

**Sedgwick Museum, University of Cambridge**

**Geological Museum, London**

**Natural History Museum, London**

**All of the above are free and have some wonderful collections and displays.**

**If you have any queries please do not hesitate to get in touch.**

**Mr Starr**