

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	1.1 Minerals Students develop an understanding of what minerals are and learn how to identify them using physical and chemical properties. They achieve the ability to explain how minerals form the fundamental building blocks of rocks and how their crystal structure and composition influence rock formation. 1.2 Igneous Rocks and Processes Students achieve an understanding of how igneous rocks form from cooling magma and lava. They learn to describe how cooling rate affects crystal size and texture and develop skills in classifying igneous rocks	1.3 Sedimentary Rocks and their Fossil content (sections a-f) Students learn how sedimentary rocks form through weathering, transport, deposition, compaction and cementation. They achieve the ability to interpret how sedimentary structures and fossil content provide evidence of past environments and geological processes.	1.4 Metamorphic Rocks and Processes Students understand how metamorphic rocks are formed through heat, pressure and chemically active fluids. They achieve the ability to explain how different conditions produce varying degrees of metamorphism and identify common metamorphic rocks.	2.1 The Rock Cycle Students develop a holistic understanding of the rock cycle, linking igneous, sedimentary and metamorphic processes. They achieve the ability to describe and explain how rocks are continuously recycled through Earth's systems. 1.5 Deformational Structures Students learn how tectonic forces shape the Earth's crust, forming structures such as folds, faults and joints. They achieve the ability to identify these structures and explain how stress and strain	1.3 Sedimentary Rocks and their Fossil content (section g) Students deepen their understanding of fossil evidence in sedimentary rocks. They achieve the ability to interpret fossils to reconstruct past environments and explain how geological history is recorded in rock layers. 2.3 Geochronological Principles Students learn how geologists determine the age of rocks and geological events. They achieve the ability to apply	2.2 Plate Tectonics Students develop an understanding of Earth's lithospheric plates and their movement. They achieve the ability to explain how plate tectonics leads to earthquakes, volcanoes and mountain building. Revision and Internal Examinations Students consolidate their Year 10 learning across all geological topics. They achieve improved exam readiness through retrieval practice, application of knowledge to exam-style questions, and formal internal

	based on their formation environment and mineral content.			lead to rock deformation.	relative and absolute dating methods to construct geological timelines and sequence events.	assessment performance.
Year 11	2.4 Global Climate and Sea Level Change Students explore how Earth's climate and sea level have changed over time. They achieve the ability to interpret geological evidence for climate change and explain both natural and human influences.	2.5 The Origin and Development of Life on Earth Students develop an understanding of how life has evolved over geological time. They achieve the ability to use fossil evidence to explain patterns of evolution and biodiversity through Earth's history.	3.1 Planetary Geology Students extend their understanding beyond Earth to other planetary bodies. They achieve the ability to compare geological processes across the Solar System and describe the features of different planetary surfaces.	4.1 Earth Hazards and their Mitigation Students study natural hazards such as earthquakes, volcanoes and landslides. They achieve the ability to explain how hazards occur, how they are monitored, and how their impacts can be reduced through mitigation strategies	4.2 Earth Resources and Engineering Students learn how Earth's resources are formed, extracted and used. They achieve the ability to evaluate the sustainability of resource use and understand how engineering solutions can reduce environmental impact.	Revision GCSE examinations Students consolidate their entire GCSE Geology knowledge. They achieve exam readiness through targeted revision, exam technique practice, and addressing misconceptions across the full specification.