

	Geology Science Year 8	
Well Above the Standard	Explains the formation of geological features on Earth with links to plate tectonics	Describes the impacts of climate change on the atmosphere, biosphere, hydrosphere and lithosphere
Above the Standard	Describes methods used for dating rocks and fossils	Describes a range of positive and negative impacts of mining on society (environmental, economic, social) and forms an ethical standpoint
At the Standard	Demonstrates an understanding of the geological time scale and can incorporate the geological time scale to explain the concept of renewable and non-renewable resources	Describes the process of mining with reference to rehabilitation
		Discuss how alternative renewable energy sources provide an alternative to non-renewable fossil fuels. Understands that these choices also have positive and negative implications for society.
	Describes the processes in the rock cycle that change rocks	
Working Towards the Standard	Describes and classifies rocks using the three major rock types (igneous, sedimentary and metamorphic)	Identifies that there are alternatives to non-renewable fossil fuels.
Well Below the Standard	Describes the rocks as non-living	
	<i>Insufficient evidence</i>	<i>Insufficient evidence</i>
Skills/Knowledge from Victorian Curriculum Content Description/Achievement Standard.	<p>1. Earth and space sciences the sustainable use of Earth's resources is influenced by whether the resources are renewable or non-renewable; the processes involved in resource extraction and energy production come with both benefits and risks to sustainability VC2S8U09</p> <p>Earth is a dynamic planet as demonstrated by tectonic activity, including the formation of geological features at divergent, convergent and transform plate boundaries; the theory of plate tectonics is supported by scientific evidence VC2S8U10</p> <p>key processes of the rock cycle occur over different timescales; the properties of sedimentary, igneous and metamorphic rocks not only reflect their formation but also impact their usefulness and determine the methods used when mined VC2S8U11</p>	<p>2. Science as a human endeavour proposed scientific responses to socio-scientific issues impact on society and may involve ethical, environmental, social and economic considerations VC2S8H03</p>
	Science Understanding	

