

Content of 1H potenziata – Science in English

Module	Content	Objectives/extra
Earth's atmosphere	<ul style="list-style-type: none"> • Structure of Earth's atmosphere • Atmospheric circulation model • Composition of Earth's atmosphere 	<ul style="list-style-type: none"> • To be able to describe and explain the evolution, structure and composition of Earth's atmosphere • To be able to understand the effects of greenhouse gases and state their properties
Earth's weather	<ul style="list-style-type: none"> • Phenomenon of the weather • Weather patterns and cycles • Causes of extreme weather events • Weather maps and how to read them • The hydrological cycle: It's processes and effects on Earth's weather 	<ul style="list-style-type: none"> • To be able to link the processes that occur in the Earth's atmosphere to causes of the weather • Understand and explain the reasons for extreme weather phenomenon
Rock cycle	<ul style="list-style-type: none"> • The rock cycle; sedimentary/igneous/metamorphic • Properties of rocks • Lab experiments of rocks; how to identify certain rock types • Geological timescale 	<ul style="list-style-type: none"> • To be able to describe the rock cycle • Distinguish between different types of rocks based chemical properties
Plate Tectonics	<ul style="list-style-type: none"> • Earth's internal structure • Types of plate movement • Plate tectonic theory • Plate boundaries; where to find them and their features • Earthquakes; causes, locations, and impacts on humans 	<ul style="list-style-type: none"> • To be able to describe and explain the differences between plates and their features • To be able to link plate tectonics to the rock cycle; lithologies and cyclicity • To be able to explain how earthquakes occur, their impacts on humans and possible prevention (humanitarian aid)
Volcanoes	<ul style="list-style-type: none"> • What is a volcano? • How volcanoes form and where • Chemical compositions of volcanoes; lava and magma types based on SiO₂ content • Living on a volcano; prediction of eruptions 	<ul style="list-style-type: none"> • To be able to describe and explain the differences between different types of volcanoes based on knowledge of plate tectonics • Combine knowledge of previous topics and

		<p>modules to give a comprehensive account of the cause of volcanic activity in relation to explosivity and frequency</p> <ul style="list-style-type: none">• To be able to explain the role of SiO₂ in magma
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