



# Year 4/5 Science Summer 1



## Geology



## Vocabulary

**Chemical weathering** – the erosion or disintegration of rocks, building materials, etc., caused by chemical reactions

**Physical weathering** – Physical weathering is caused by the effects of changing temperature on rocks, causing the rock to break apart. The process is sometimes assisted by water.

**Igneous rock** – Igneous rock is formed through the cooling of magma or lava.

**Sedimentary rock** – Sedimentary rock is formed by the accumulation or deposition of mineral or organic particles at the Earth's surface, followed by cementation.

**Metamorphic rock** – Metamorphic rocks started out as some other type of rock, but have been substantially changed from their original igneous, sedimentary, or earlier metamorphic form.

**Hydrolysis** – hydrolysis is a chemical process in which a molecule of water is added to a substance.

**Oxidation** – Combustion is an example of a type of reaction called oxidation. In an oxidation reaction, a substance gains oxygen.

**Erosion** – Erosion is the geological process in which earthen materials are worn away and transported by natural forces such as wind or water.

**Geysers** – A geyser is a rare kind of hot spring that is under pressure and erupts, sending jets of water and steam into the air.

## TYPES OF ROCKS

IGNEOUS		SEDIMENTARY		METAMORPHIC	
					
Granite	Scoria	Sandstone	Limestone	Marble	Slate
					
Pumice	Obsidian	Shale	Conglomerate	Gypsum	Quartzite
					Gneiss

## Types of Chemical Weathering

Reaction With Water



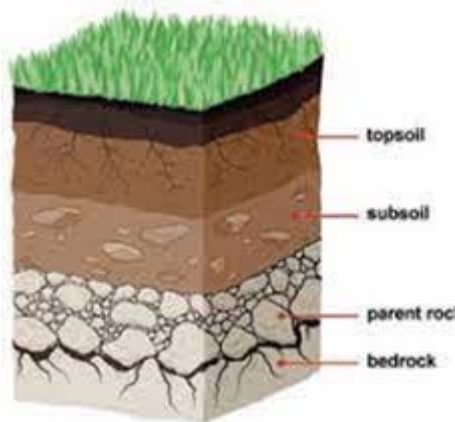
Reaction With Oxygen



Reaction With Acid



Reactions With Organisms



**Before we learn our topic:**

Name three different types of rocks.

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What is the difference between a geyser and a hot spring?

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What is erosion?

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**After we learn our topic:**

Name three different types of rocks.

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What is the difference between a geyser and a hot spring?

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What is erosion?

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