Unit 5 Geology Focus Wall Posters



Please reach out if you have any feedback or requests!

Knowledge Objective We will be able to read and write about geology.





The study of the characteristics of the Earth's surface.

Ecology















Fossils

Cappadocia Houses



Volcano

Tectonic Plate Theory

PLATE BOUNDARIES





Tectonic plate theory explains how mountains, volcanoes, and trenches are created on land and under the sea.

Earthquakes





Earthquakes occur when the HUGE tectonic plates of the Earth's crust suddenly move because of heat and pressure.

Volcanoes





Volcanoes are hills or mountains that form over a crack in the Earth's crust from which lava erupts.

Landslides



Landslides occur when a mass of earth or rock from a cliff or mountain slides down a slope. It can happen suddenly or slowly.

Tsunamis



A tsunami is a series of long waves caused by an earthquake, volcanic eruption, or landslide that occurs below the sea.

Wave Front

Unit 5 Geology The Rock Cycle Posters







Igneous Rock (formed from magma)

<u>extrusive (volcanic)</u> formed when molten rock reaches the Earth's surface and cools

intrusive (plutonic) formed when crystallized magma, cooled over time, is solidified deep in the Earth





Sedimentary Rock (formed from layers of sand & mud)

formed when combinations of rock fragments, fossils, seashells, and chemicals are compressed in layers and hardened













Limestone



Shale



Diatomite



Sandstone







Dolomite



Science Facts -

Siltstone

Metamorphic Rock (formed when existing rock is subjected to heat and pressure)

formed when igneous or sedimentary rocks are fused together by heat, pressure, and time





WEATHERING (breaks it)

Breaks down rocks, minerals, or other parts of the Earth's crust into smaller pieces called sediment.



EROSION (takes it)

Moves sediment from one location to another by water, ice, wind, or gravity.



DEPOSITION (drops it)

Deposits (drops) sediment into a new location to build a new landform.



Weathering (breaks it)

Breaks down rocks, minerals, or other parts of the Earth's crust into smaller pieces called sediment.



location to another by water, <u>Moves</u> sediment from one ice, wind, or gravity.



into a new location to build a

new landform.

Deposits (drops) sediment









Unit 5 Lesson 10 Spelling Words

archrival paragraph rupture hierarchy biographer abrupt

matriarch anarchy autograph eruption calligraphy uninterrupted

Unit 5 Lesson 15 Spelling Words conclusion molten glacier fault tsunami geyser epicenter erosion seismograph tectonic

Unit 5: Suffix				
-ly (in a way)				
just add -ly	drop -e first	change y to i		
slow ly	bubb ly	easily		
quick ly	horrib ly	temporar ily		
quiet ly	wiggly	speed ily		
loud ly	affordab ly	happ ily		
proudly	miserab ly	angr ily		
careful ly	impossib ly	busily		

Unit 5: Root Words				
arch	graph	rupt		
ruler	write/draw	break/burst		
arch duke	auto graph	rupt ure		
arch rival	geo graph y	abrupt		
hier arch y	para graph	eruption		
an arch y	bio graph y	dis rupt ion		
matri arch	tele graph	cor rupt		
patri arch	photo graph er	inter rupt ed		

Unit 5: Root Word

The root word <u>arch</u> means "ruler"

archduke

a chief duke <u>archrival</u>

a main rival; opponent hierarchy

an organized system that ranks things according to power or importance

anarchy

a situation not controlled by rules <u>matriarch</u>

a woman who rules a family or tribe **patriarch**

a man who rules a family or tribe

Unit 5: Root Word

The root word graph means "to write/draw"

autograph

a written signature **photographer**

a person who takes photos, especially as a job **geography** the study of places on

a map

paragraph

a piece of writing **biography**

a story about a real person's life written by someone else <u>telegraph</u> a system for transmitting messages

Unit 5: Root Word

The root word <u>rupt</u> means "break or burst"

<u>rupture</u>

a break or burst <u>abrupt</u>

unexpected or suddenly <u>eruption</u>

the process or sending out rock, lava, and ask in a sudden explosion

<u>uninterrupted</u>

continuing without breaking or being stopped by something <u>disruption</u>

an interruption during an activity or process <u>**Corrupt**</u>

break someone's trust



Direct Quotes vs. Paraphrasing			
Direct Quote 💻	Paraphrasing		
According to the text, "Tectonic plates fit tightly together."	Tectonic plates are merged extremely close to one another.		
Direct Quote 💻	Paraphrasing		
The text says, "Eventually the top of the volcano may rise above the ocean's surface and form an island."	One fact is that an island can form once the peak of a volcano erects over the top of the sea's surface.		





The volcanic ash looked <u>like</u> a cloud of pollution from a fossil fuels factory.

The rock was <u>as</u> cold <u>as</u> ice.

The tsunami's waves rose high over the ocean <mark>like</mark> a powerful beast preparing to pounce on its prey.

a literary device that compares two unlike things using the words "like" or "as"



Descriptive Paragraph

Hello, my name is Obsidian O'Brian and I'm an igneous rock! If you try to hug me, you'll notice I'm as smooth as glass. When you look at me, you'll see that I look as black as a prowling jungle panther. The reason I am here is because Vicky Volcano gave birth to me. I used to be one mean mini-magma baby, but my teacher Ms. Weathering taught me cool down strategies until I became who I am today. I love hanging out with my mom, but boy does she have a fiery temper at times! My mom says someday she's going to help me become metamorphic rock!

Descriptive P	aragraph 🍔
Hello, my name is	and I'm
. If yo	u try to ,

you'll notice l'm

When you look at me, you'll see

. The reason I

am here is because

Writing Examples Students typed in Google Docs!

WIKI ENTRY AN INCREDIBLE VOLCANO

CREATED BY (NAME)



TAMBORA or MAUNA LOA Insert a complete sentence using the volcano's name.

LOCATION

Insert sentence(s).

VOLCANO TYPE & LAST ERUPTION Insert sentence(s).

VOLCANO DESCRIPTION Insert sentence(s).

OTHER FACTS

1. FACT #1 Insert Fact Sentence

2. FACT #2

Insert Fact Sentence

REFERENCE Book - Geology: The Changing Earth (2017)

MY DESCRIPTIVE PARAGRAPH

By (Insert Name)



Hello, my name is (alliteration name)! If you try to (high five/touch/hug me), you'll notice I'm (insert what surface <u>feels</u> like). When you look at me, you'll see (insert what it <u>looks</u> like). The reason I am here is because (insert how it is <u>formed</u>). (Finish with 3 or more detailed sentences.)

Google Docs Links:

Volcano Wiki Entry Link

Descriptive Paragraph Link