What Are The Different Types Of Geological Processes?

The rocks that we see around us have probably formed millions of years ago. Rocks cannot be created or destroyed. They just get transformed from one form to the other by natural processes such as weathering, erosion, deposition, etc. Rocks, mountains, valleys, plateaus, etc. all form the landscape of the earth.

The processes that change the landscape of the earth are known as **geological processes.** These processes might be slow or fast but are constantly happening.

The following are the different types of geological processes:

1. Erosion

Erosion is a process wherein the natural surfaces of the earth are worn away and transported to other places. The erosion can be caused by natural forces such as water, ice, or air.



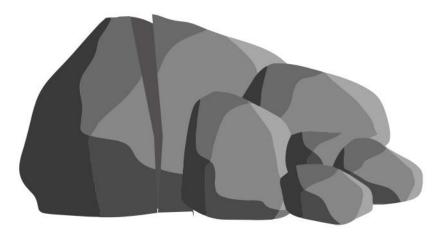
Examples:

- (a) Rivers carry sediment and deposit it in the ocean.
- (b) Glaciers move materials from mountains along with them as they move.
- (c) The wind moves dunes from one place to the other and creates new sand dunes.



2. Weathering

Weathering is a process wherein rocks get dissolved or disintegrated into smaller pieces due to mechanical, chemical, or organic weathering processes.



Examples:

- a) As wind or water passes along the mountains, it carries the minerals from the mountains along with it and the minerals get worn out.
- (b) Rust is also an example of weathering. It happens when iron reacts with oxygen and forms rust on the surface of the iron.

3. Plate tectonics

The theory of the plate tectonics states that the Earth's crust is broken down into different plates and all these plates interact with each other. There are three types of plate boundaries:

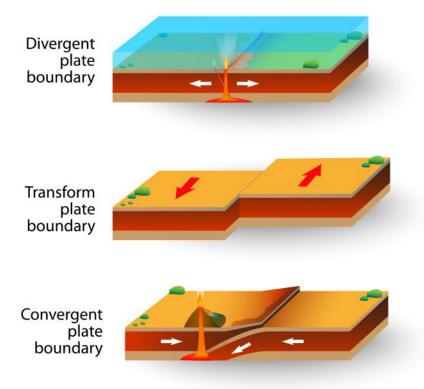
Transform boundaries

These are areas where two plates slide along each other. Due to the friction between these plates, earthquakes are common in these regions.

• Convergent boundaries

These are areas where two tectonic plates collide with each other. In the areas of convergent boundaries, volcanoes are common.





Divergent boundaries

In these areas, the plates move apart from each other. Divergent boundaries on land might cause rift valleys, and the divergent plates in the oceans may cause mid-oceanic ridges.

4. Volcanism

Volcanism is a phenomenon associated with the discharge of hot water, steam, lava, molten rocks, etc. from the crust of the earth. They are common in areas with convergent and divergent boundaries.



Tick the correct answer from the options given below:

1. Rocks	can be created and destro	oyed.
☐ True	9	☐ False
☐ Bot	h of the above	☐ None of the above
	are the different processes known as?	that change the landscape of the
☐ Eros	sion	☐ Weathering
☐ Geo	ological processes	○ Volcanism
	is the process in which the and transported to other p	natural surfaces of the earth get worn laces?
O Vol	canism	☐ Erosion
☐ Wea	athering	☐ Geological processes
	is this an example of: "Rive epositing them in the ocea	ers carrying sediments from mountains an bed."
☐ Vol	canism	Erosion
☐ Wea	athering	☐ Geological processes
	is this an example of: "Ice of tain with them as they mo	glaciers moving the content of a ve."
☐ Eros	sion	☐ Weathering
☐ Geo	ological processes	○ Volcanism



6. What is the process whe pieces?	rein rocks break down in multiple small	
☐ Volcanism	□ Erosion	
☐ Weathering	☐ Geological processes	
7. What is rusting an exam	ple of?	
☐ Volcanism	Erosion	
☐ Weathering	☐ Geological processes	
TO SHALL BY THE STATE OF THE ST	this phenomenon: "The earth's crust is broken es and all these plates interact with each other"	
☐ Theory of gravity	☐ Newton's law of force	
☐ The theory of the plat	e tectonics	
9. What happens in conver	gent boundaries?	
☐ Tectonic plates collide	e with each other by moving towards each	
☐ Tectonic plates pass along each other		
 Tectonic plates move 	away from each other	
○ Valleys are formed		
10. What happens in areas v	with divergent boundaries?	
☐ Tectonic plates collide	e with each other by moving towards each	
 Tectonic plates pass a 	long each other	
☐ Tectonic plates move	away from each other	
O Valleys are formed		

