

# What Are Rocks and the Rock Cycle?

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Some Common Rocks

- Recall that even though more than 3,500 minerals have been identified on Earth, only about 12 are \_\_\_\_\_.
- Likewise, there are about \_\_\_\_\_ different rocks on Earth, but only 20 are common.

Name of Common Rock	Example of What Type of Rock
	Igneous
Diorite	
Gabbro	
	Igneous
	Igneous
Obsidian	
	Sedimentary
Sandstone	
Shale	
	Sedimentary
	Sedimentary
Chert	
Bituminous Coal	

	Sedimentary
	Metamorphic
	Metamorphic
Gneiss	
Marble	
	Metamorphic
	Metamorphic

### Scripture Spotlight

- What do **Exodus 17:5-6** and **Deuteronomy 8:15** say about a rock?

### How Rocks Change

- Rocks may seem permanent, but they are \_\_\_\_\_ changing.
- These changes may happen \_\_\_\_\_ or over a long period of time.
- Some of the changes take place at or near the Earth's \_\_\_\_\_.
- Other changes take place deep \_\_\_\_\_ Earth's surface.
- The natural processes that change rocks make up the \_\_\_\_\_.
- Like most natural cycles, the rock cycle has no beginning or end. Let's start with the processes that take place at or very close to the Earth's surface.
- \_\_\_\_\_ is any process that breaks rocks into smaller pieces.
- Recall that these pieces of Earth materials are called \_\_\_\_\_.
- \_\_\_\_\_ is the carrying of sediment from one place to another.
- Water, wind, and ice, are common \_\_\_\_\_ of erosion.
- When these agents slow down or stop, they \_\_\_\_\_ the sediment they are carrying.
- \_\_\_\_\_ is the dropping or laying down of loose Earth materials.

- Once sediment is deposited, it is slowly \_\_\_\_\_, or squeezed, and *cemented*, or bound together.
- These processes form \_\_\_\_\_ rocks.
- Rock cycle processes that take place deep within Earth result in the formation of \_\_\_\_\_ igneous rocks or metamorphic rocks.
- Melting rock deep within Earth produces \_\_\_\_\_.
- As magma slowly cools, minerals \_\_\_\_\_.
- These minerals make up \_\_\_\_\_ igneous rocks.
- If the magma rises to the surface, it becomes \_\_\_\_\_.
- Lava crystallizes and forms \_\_\_\_\_ igneous rocks.
- If rocks are changed by heat, pressure, and/or hot fluids, but they do not melt, then \_\_\_\_\_ rocks form.
- High temperature and hot fluids usually produce \_\_\_\_\_ rocks.
- High \_\_\_\_\_ usually produces foliated rocks.

#### Scripture Spotlight

- ***Matthew 7:24-25*** describes a house that was strong enough to withstand a storm. Why was the house so strong? What point do you think Jesus was trying to make with this story?