

## Lesson 1 Rocks and the Rock Cycle

**Scan** Lesson 1. Read the lesson titles and bold words. Look at the pictures. Identify three facts you discovered about the rock cycle. Record your facts in your Science Journal.

### Main Idea

#### Rocks

I found this on page **111**.

I found this on page **112**.

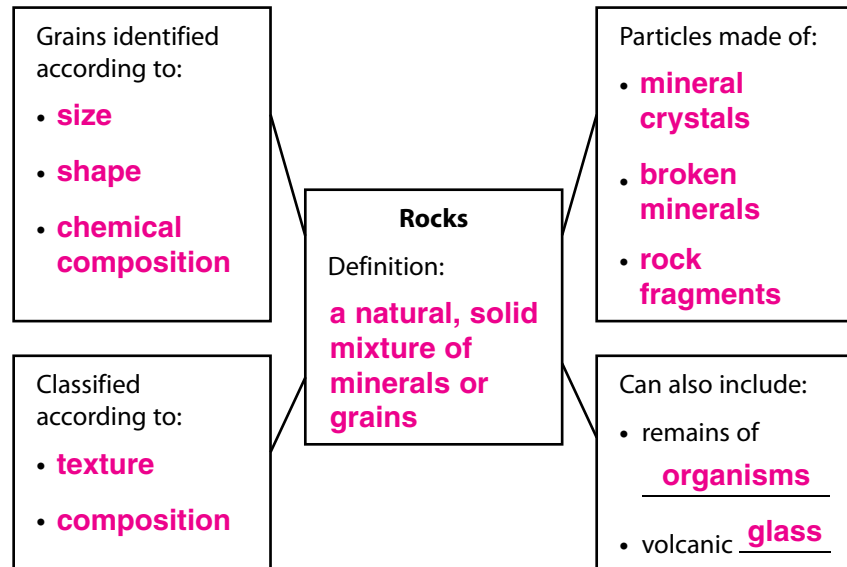
#### Three Major Rock Types

I found this on page **113**.

I found this on page **113**.

### Details

**Organize** information about rocks.



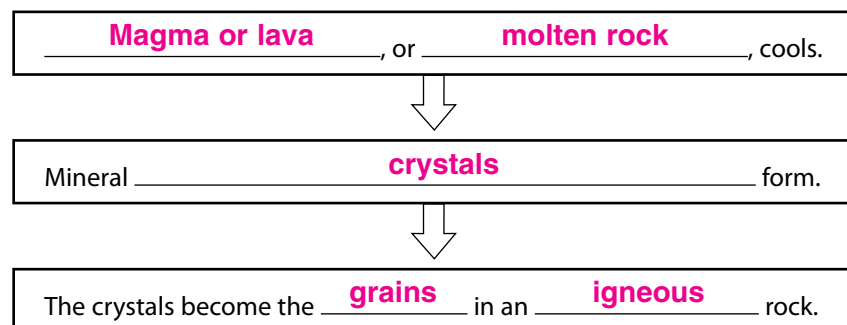
**Point out** two observations scientists use to classify rocks.

1. **texture: grain size and the way grains fit together in a rock**
2. **composition: the type of grains present in a rock; gives clues as to where the rock formed**

**Identify** the 3 major groups of rocks.

1. **igneous**
2. **metamorphic**
3. **sedimentary**

**Sequence** how igneous rocks form.



## Lesson 1 | Rocks and the Rock Cycle (continued)

### Main Idea

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### Details

**Point to** *four forces that cause rocks on Earth's surface to break down.*

1. wind
2. running water
3. ice
4. gravity

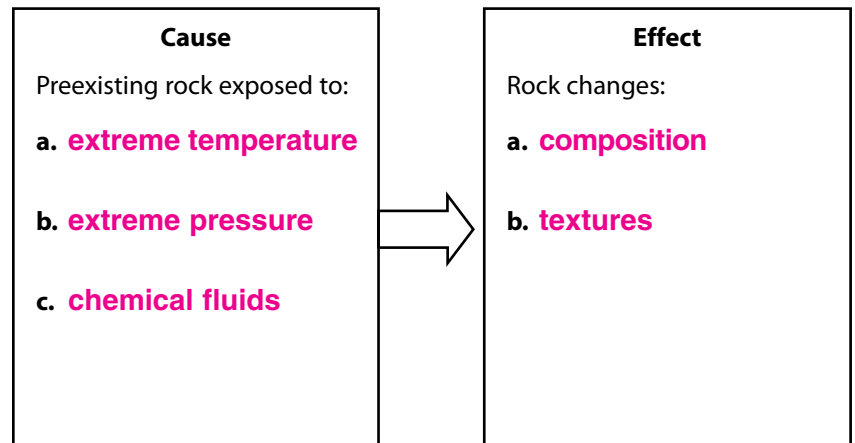
**Explain** sediment.

Sediment: rock material that forms where rocks are broken  
down into smaller pieces or dissolved in water as rocks  
erode

**Identify** *the building blocks of sedimentary rocks.*

sediments, which include rock fragments, mineral crystals,  
or remains of organisms

**Analyze** *the cause-and-effect relationships that cause metamorphic rocks to form.*




 **Define** rock cycle.

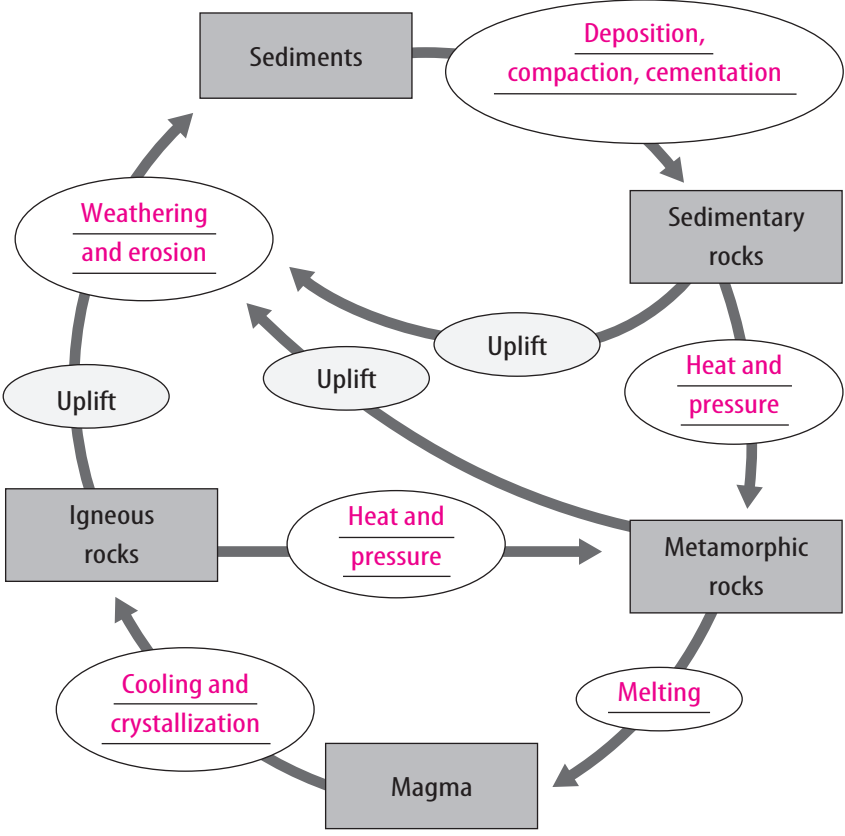
The rock cycle is a series of processes that change one  
type of rock into another type of rock.


Main Idea

Details

I found this on page 115.

 **Label** the rock cycle. Identify and label the missing processes.



 **Synthesize It** Rocks are constantly undergoing processes that change them from one kind of rock into another. Explain, in your own words, how a metamorphic rock can change into an igneous or sedimentary rock.

Accept all reasonable responses. Sample answer: If a metamorphic rock is subjected to heating to the point of melting, it can become part of magma, which can cool, crystallize, and form an igneous rock. If the rock is exposed at Earth's surface over time, it will begin to erode and form sediments. Those sediments might form sedimentary rock.

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