

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

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## **Rocks and Minerals Test Review Sheet**

**A mineral is a naturally occurring inorganic solid that has a definite chemical composition and crystalline structure.**

To be a mineral, a substance must be:

1. **naturally occurring** – not man made
2. **inorganic** – not made of living things (plants and animals)
3. **solid** – a mineral cannot be a gas or liquid
4. **crystalline structure** – has a repeating inner structure

**Examples of minerals:**

Fluorite  
Quartz

Calcite  
Feldspar

The SEVEN properties/characteristics used to identify minerals are (briefly describe each):

1. **color** – the physical appearance of the mineral
2. **luster** – the way the mineral reflects light (metallic, submetallic, nonmetallic)
3. **streak** – the color of the powder of a mineral when rubbed against a piece of tile
4. **fracture** – the manner in which a mineral breaks along either curved or irregular surfaces
5. **cleavage** – the splitting of a mineral along smooth, flat surfaces
6. **hardness** – a measure of the ability of a mineral to resist scratching
7. **density** – the ratio of the mass of a substance to the volume of the substance

### **How do sediments become a sedimentary rock?**

Rocks are weathered and eroded over time to become sediments. Over thousands of years, sediments have been compacted and cemented together to form sedimentary rock.

### **How does a metamorphic rock become an igneous rock?**

A metamorphic rock can become an igneous rock by melting into magma underneath the earth's crust and cooled to form an igneous rock.

### **Describe two ways in which an igneous rock can become a metamorphic rock.**

**Way 1:** An igneous rock can be weathered and eroded into sediments. Then the sediments are compacted and cemented together to form a sedimentary rock. Finally, the sedimentary rock undergoes a tremendous amount of heat and pressure deep within earth to form a metamorphic rock.

**Way 2:** An intrusive igneous rock is exposed to heat and pressure under the earth's crust and becomes a metamorphic rock.

### **How does magma become sediments?**

Extrusive igneous rocks are weathered and eroded into sediments.

# Minerals And Rocks Review Earth Science Answers

**D Keegan**



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