

# ROCKS

Powerpoint used in a Middle School demonstration lesson (science) presented by Anita L. Archer, PHD. A number of expository reading strategies were demonstrated including previewing and self-questioning.









# classify

To classify things means to divide them into groups or types so that things with similar characteristics are in the same group.

classify  
classifies  
classifying  
classified  
classification

# Before Reading - Previewing

## Warm-Up

Before you read a chapter or a section of a chapter in your science, social studies, or health book, Warm-up. Get an idea of the chapter's content by previewing these parts.

### **BEGINNING**

- Title
- Introduction

### **MIDDLE**

- Headings
- Subheadings

### **END**

- Summary
- Questions

Curriculum Associates, *Skills for School Success*

# Self-Questioning Strategy

1. Read the heading.
2. Form a question or questions.
3. Read the section.
4. Answer the question.

# Classifying Rocks

Question	Answer

# Classifying Rocks

Question

How do you classify rocks?

How are rocks classified?

Answer

# Classifying Rocks

Question

How do you classify rocks?

How are rocks classified?

Answer

Rocks are classified by mineral composition, color, and texture.

# How Rocks Form

Question	Answer
Igneous rocks	
Sedimentary rocks	
Metamorphic rocks	

# How Rocks Form

Question	Answer
Igneous rocks How do igneous rocks form?	
Sedimentary rocks How do sedimentary rocks form?	
Metamorphic rocks How do metamorphic rocks form?	

# How Rocks Form

Question	Answer
Igneous rocks	Igneous rocks are formed when magma or lava cools.
Sedimentary rocks	
Metamorphic rocks	

# Igneous Rocks

# Basalt



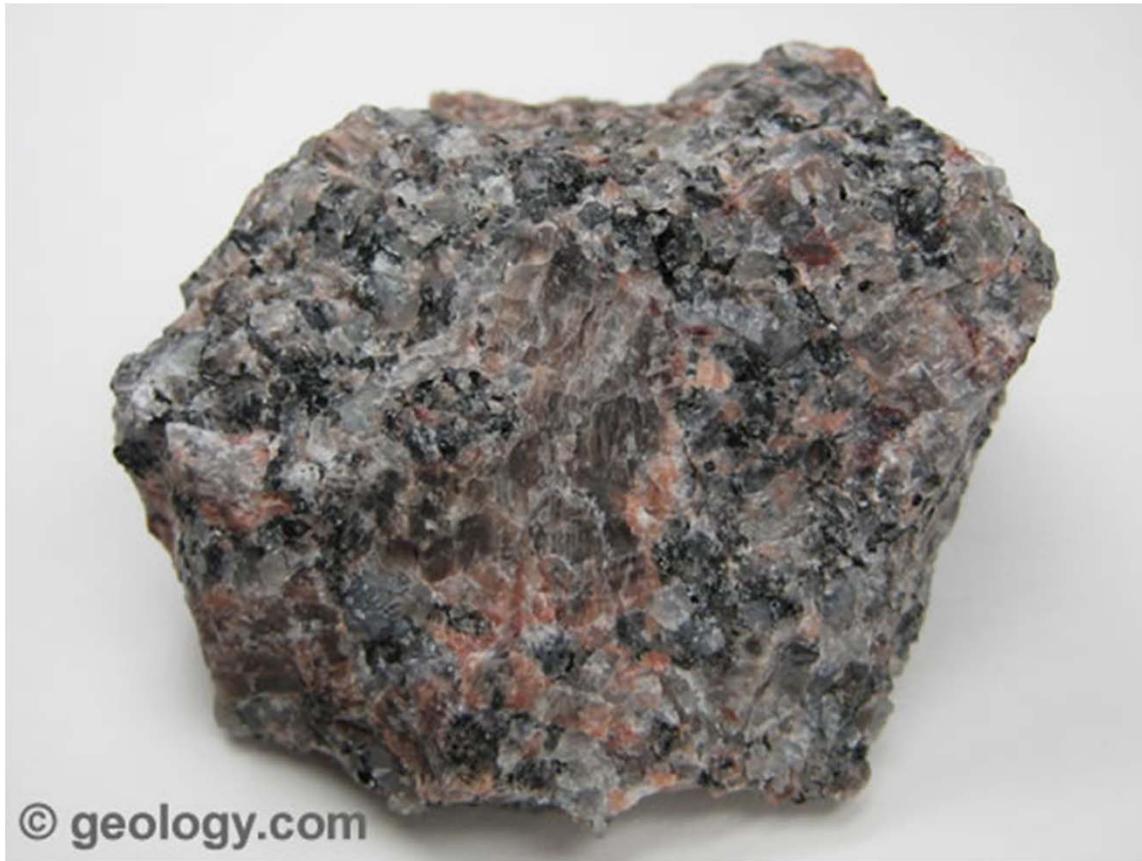
# Tuff



# Pumice



# Granite



# Obsidian



# How Rocks Form

Question	Answer
Igneous rocks How do igneous rocks form?	
Sedimentary rocks How do sedimentary rocks form?	
Metamorphic rocks How do metamorphic rocks form?	

# How Rocks Form

Question	Answer
Igneous rocks How do igneous rocks form?	
Sedimentary rocks How do sedimentary rocks form?	Sedimentary rocks are formed when rock particles and remains of plants and animals are pressed together.
Metamorphic rocks How do metamorphic rocks form?	

# Sedimentary Rocks

# coal



# Conglomerate



# limestone



# shale



# sandstone



# How Rocks Form

Question	Answer
Igneous rocks How do igneous rocks form?	
Sedimentary rocks How do sedimentary rocks form?	
Metamorphic rocks How do metamorphic rocks form?	

# How Rocks Form

Question	Answer
Igneous rocks How do igneous rocks form?	
Sedimentary rocks How do sedimentary rocks form?	
Metamorphic rocks How do metamorphic rocks form?	Metamorphic rocks are formed when existing rock is changed by heat, pressure, or chemical reaction deep in the earth. <sup>31</sup>

# Metamorphic Rocks

# amphibolite



# Gneiss (nice)



# Quartzite



# Slate



# schist



# Texture

# Texture

Question	Answer
Grain size	
Grain shape	
Grain pattern	