



# 2. INFORMATION SOURCES

Use the resources found on the following site to increase your knowledge about the processes that cause rocks to change over time.

## Rock Cycle Interactive

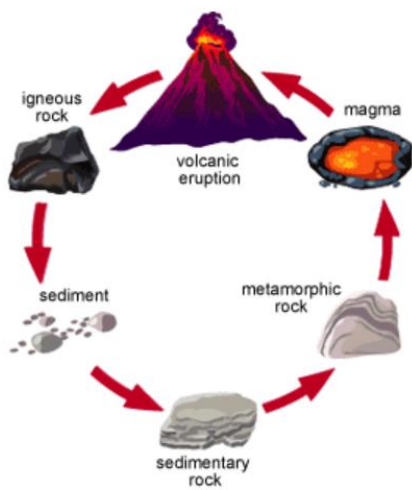
Introduction | Types of Rocks | How Rocks Change | The Rock Cycle Diagram | Test Your Skills

### Introduction

**ROCKS** come in cool colors, shapes, textures, and sizes and are found all around you, but how much do you REALLY know about them?

Discover rock secrets through these activities. Create a rock collection as you learn about the three main types of rock, find out how to tell the different rock types apart, and see how rocks change from one type into another!

[Begin with Types of Rocks](#)



About this Interactive | Glossary | Rock Cycle Site Map

Image Source: Annenberg Learner

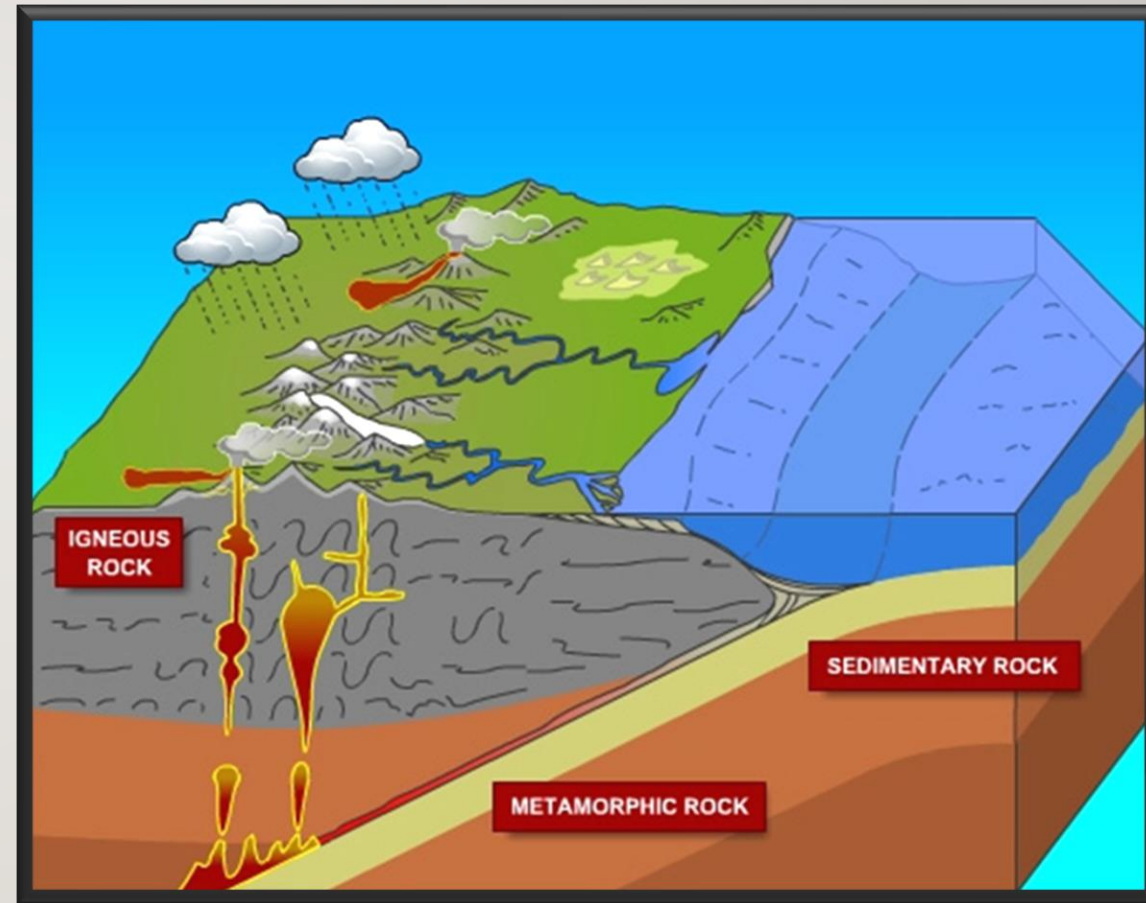


Image Source: National Science Foundation



### 3. STUDENT ACTIVITY

Begin your investigation about the *Rock Cycle*...

Start here: [Rock Cycle Interactive](#)

- a. Read the **Introduction** tab.
- b. Read the **Types of Rocks** tab.
- c. Read and click on animations in the **How Rock Change** tab.
- d. Explore the **Rock Cycle Diagram** tab.

First, complete **Activity A** (assigned by your teacher in Schoology) to label parts of the Rock Cycle.

Then, complete **Activity B** (assigned by your teacher in Schoology) to identify Rock Transformations.

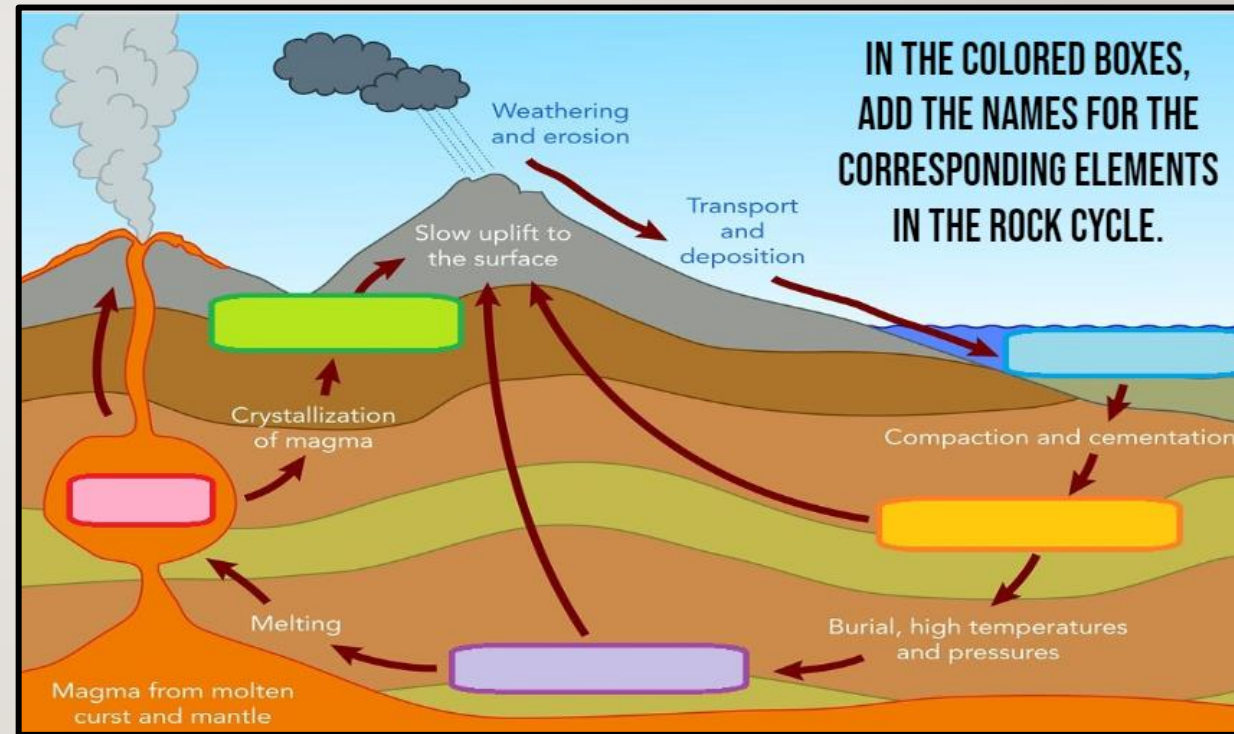
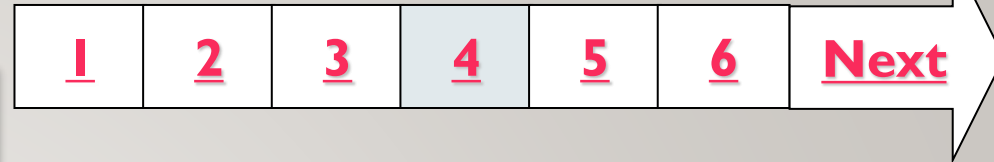


Image from Activity A

# 4. ASSESSMENT ACTIVITY

SLIDE NAVIGATION



How can the processes that change one form of rock into another be described?

Complete the **Assessment Activities** assigned by your teacher through Schoology

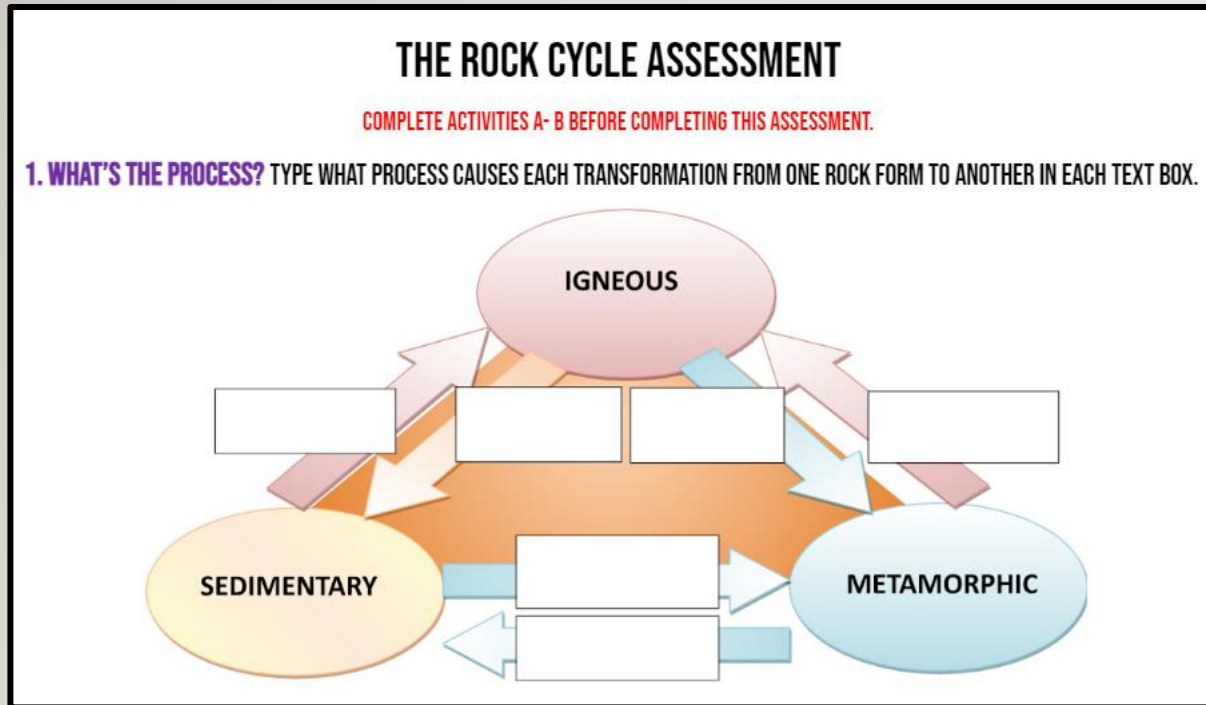


Photo from James St. John from [Flickr](#)



## 5. ENRICHMENT ACTIVITIES

Below are some additional sites to further develop your understanding of the Rock Cycle:

- [BrainPOP](#)
- [Rock Cycle Animation](#)

### Real World Applications: The Rock Cycle

- [How Tunnels Work](#)
- [Digging for Tunnels](#)
- [How the Grand Canyon was Formed Over Time](#)



The Grand Canyon. Image Source: [Discovery Education](#)

# 6. TEACHER RESOURCES

## Learning Standards Alignment

### Content Learning Standards

MS-ESS2-1. Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.

### Common Core State Standards for English Language Arts & Literacy

**Reading: 1.** Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

**Writing: 7.** Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.

**AASL Standards Framework for Learners** Inquire: Build new knowledge by inquiring, thinking critically, identifying problems, and developing strategies for solving problems.

Think: Learners display curiosity and initiative by:

I.A.2 Recalling prior and background knowledge as context for new meaning.

Create: Learners engage with new knowledge by following a process that includes:

I.B.1 Using evidence to investigate questions. I.B.3 Generating products that illustrate learning.

Share: Learners adapt, communicate, and exchange learning products with others in a cycle that includes:

I.C.1 Interacting with content presented by others.

Grow: Learners participate in an ongoing inquiry-based process by:

I.D.2 Engaging in sustained inquiry.

### **P21 Framework: 21<sup>st</sup> Century Student Outcomes**

**3. Information, Media & Technology Skills: Information Literacy:** Access information efficiently and effectively; Use information accurately and creatively for the issue or problem at hand.

**ICT Literacy:** Use technology as a tool to research, organize, evaluate and communicate information.

## SLIDE NAVIGATION

<a href="#">1</a>	<a href="#">2</a>	<a href="#">3</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">6</a>
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## Grade 7 Science:

**Objective:** Students will be conduct brief, focused research in order to describe the processes that change one form of rock into another.

**Time Frame:** approximately three hours.

### **Differentiation strategies for this lesson:**

- Have students use learning supports provided in BCPS Digital Content found in the [Apps Portal](#). Refer to [Digital Content Snapshot/Support pages](#) as needed.

### **Notes to the teacher:**

- Collaborate with your school library media specialist to plan and implement this lesson.
- **The Student [Activity A](#) and [Activity B](#) on Slide 3 AND the [Assessment Activity](#) on Slide 4 are Google Drive activities that can be assigned to students as a OneDrive Assignment using the [Schoolology Assignment App](#)**
- Provide students with login information as needed to authenticate BCPS Digital Content. Login information is available on the **BCPS Digital Content** page found via the [Apps Portal](#)

Last updated: July 2022 Use this form to [Report Broken Links](#)

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