

6th Grade Science 6/10

EQ: What are the three types of rocks?

CW: Sedimentary Rocks

HW: Finish Sedimentary Rocks packet if not completed in class

Agenda

1. Writing prompt
2. Rock Cycle Video
2. Quick Write
3. Sedimentary Rocks

Open Ended Question

Write silently for three minutes. What do you know about rocks? What types are they? How are they formed? How are they destroyed? What is one question you still have?



https://www.youtube.com/embed/BsIHV_voMk



Bill nye rock cycle



The Happi One

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THE ROCK CYCLE SONG
Jam Campus Education
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The Rock Cycle
Hank Rod
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3 Types of Rocks and the Rock Cycle: Igneous, Sedimentary,
Free School
563,449 views



Bill Nye the Science Guy S05E14 Erosion
Bill Nye Fan
62,954 views



RockCycle



Be a Rock Detective!
SciShow Kids
217,718 views



Two Minute Quick Write

Take two minutes to write about the video:

Answer the following questions:

1. How are the three types of rocks formed?
2. What was the most interesting fact you learned?
3. What is your favorite type of rock?

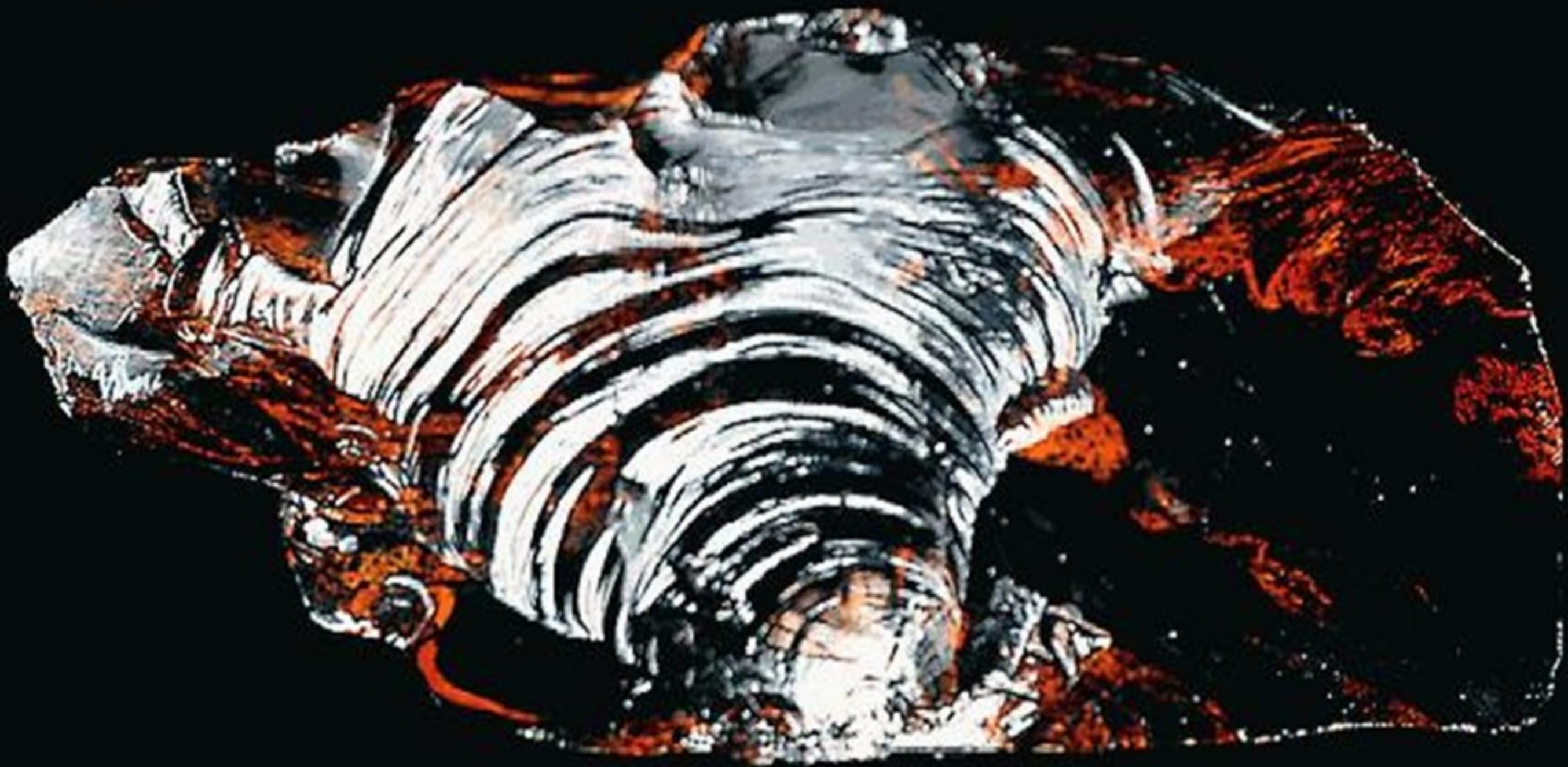
Partner Share

- Trade papers with a partner
- Read what they wrote
- Write one comment or question on their paper.



Metamorphic Rock

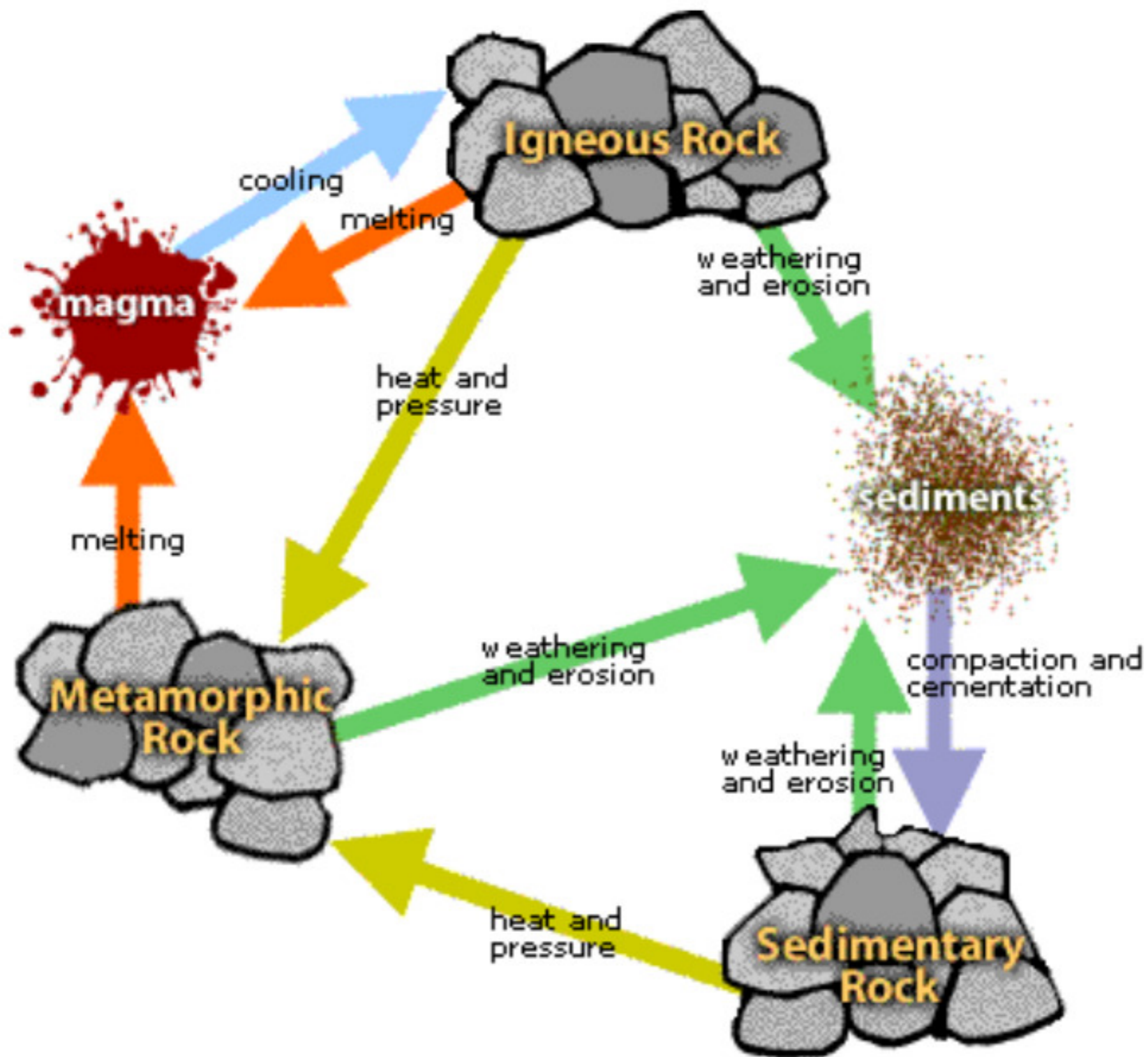
Igneous Rock



William Sacco

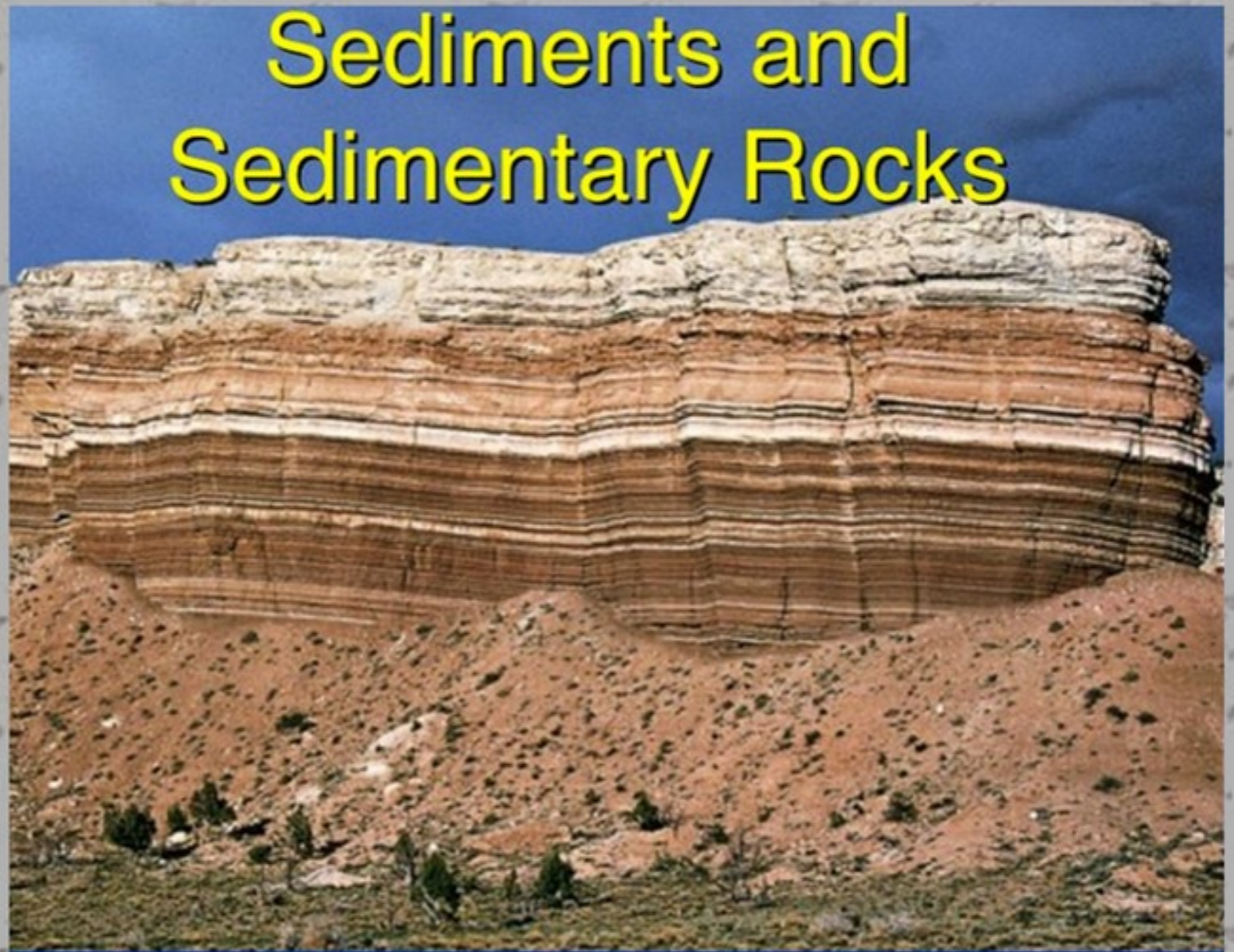
A photograph of a rock outcrop showing distinct, tilted sedimentary layers. The layers vary in color, including shades of grey, blue, tan, and reddish-brown. A geological hammer is placed on the rock surface to provide a sense of scale. The hammer has a silver head and a black handle.

Sedimentary Rock



Sedimentary Rocks

- Rock that form by compaction or cementation of sediments.



Sedimentary Rocks

- When Earth's sediments are pressed together over time, sedimentary rock forms.





Picture by Jean-Christophe BENOIST

Garden of the Gods, Colorado

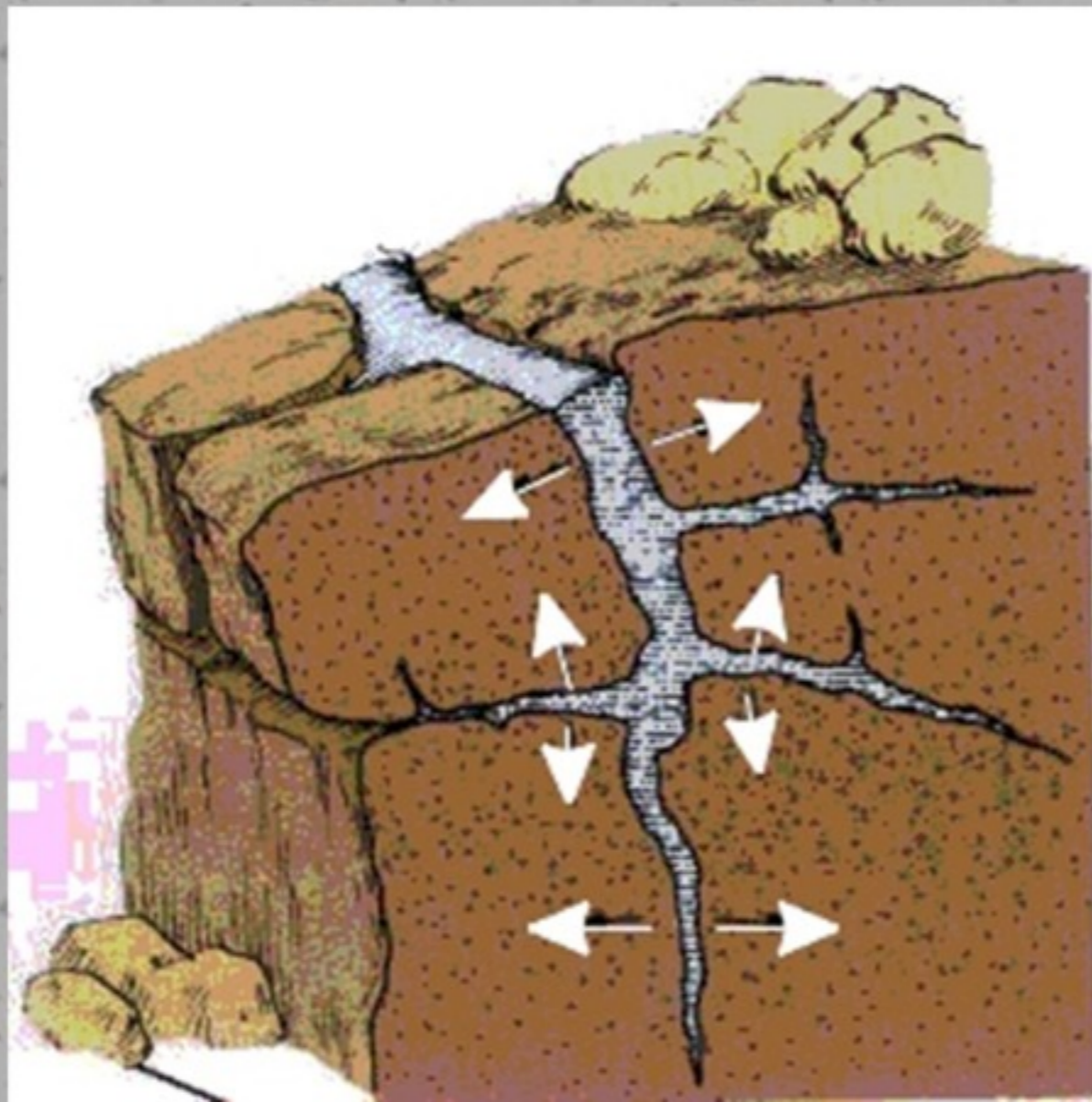


**Over 80% of
Earth's surface is
made up of
sedimentary rock!**

Steps of Forming Sedimentary Rocks

Weathering

- Weathering is the process where rock is broken down into smaller and smaller pieces.



Sediment

- Weathering creates sediment.



Sizes of Sediments

- Pebbles / Gravel
- Sand
- Silt
- Clay



Erosion

- Erosion moves the sediment to a new location.
- Transported by wind, water, or gravity.



Deposition

- Deposition is when sediment settles in a new location.
- More and more sediment will be deposited on top of each other.



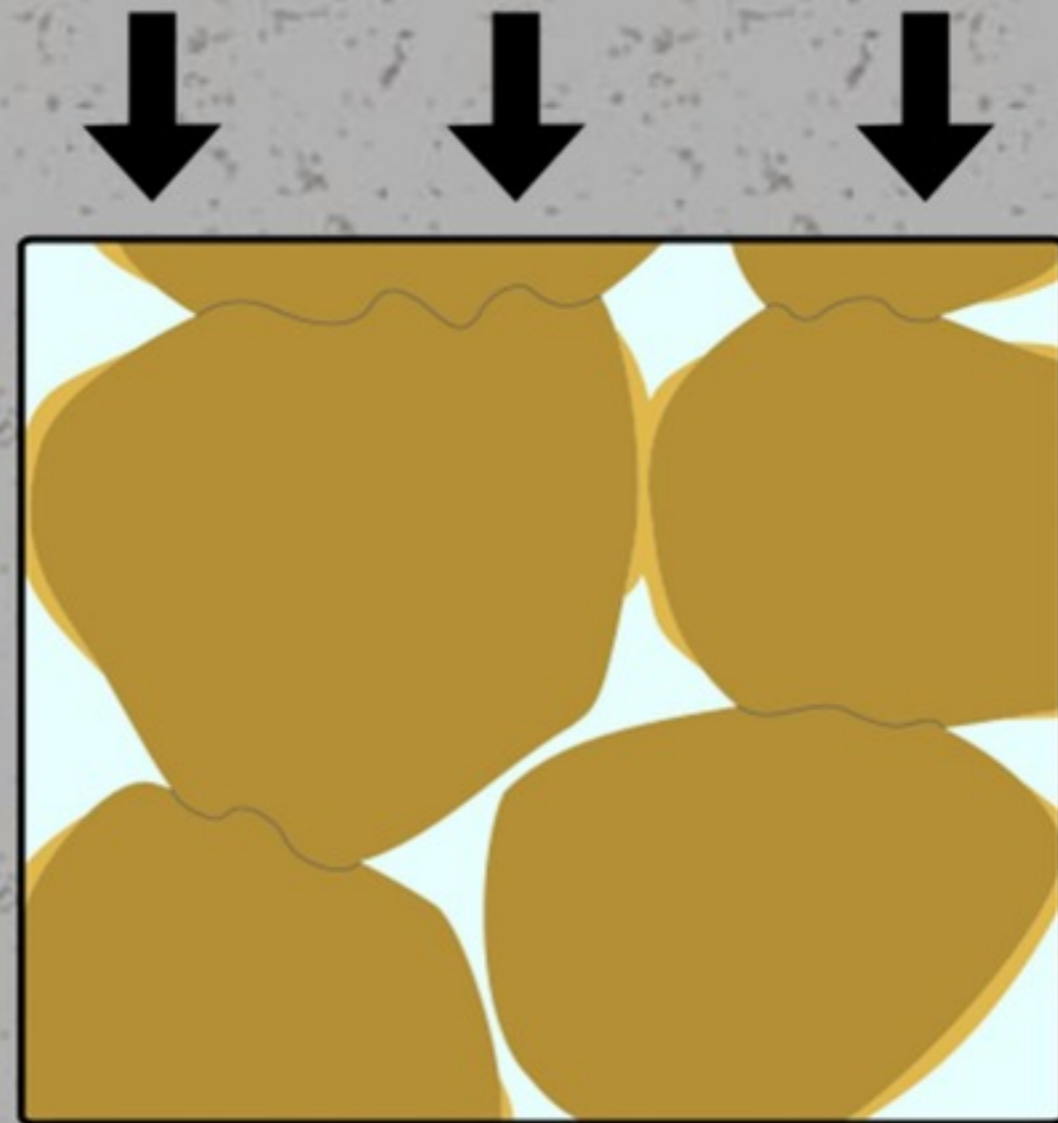
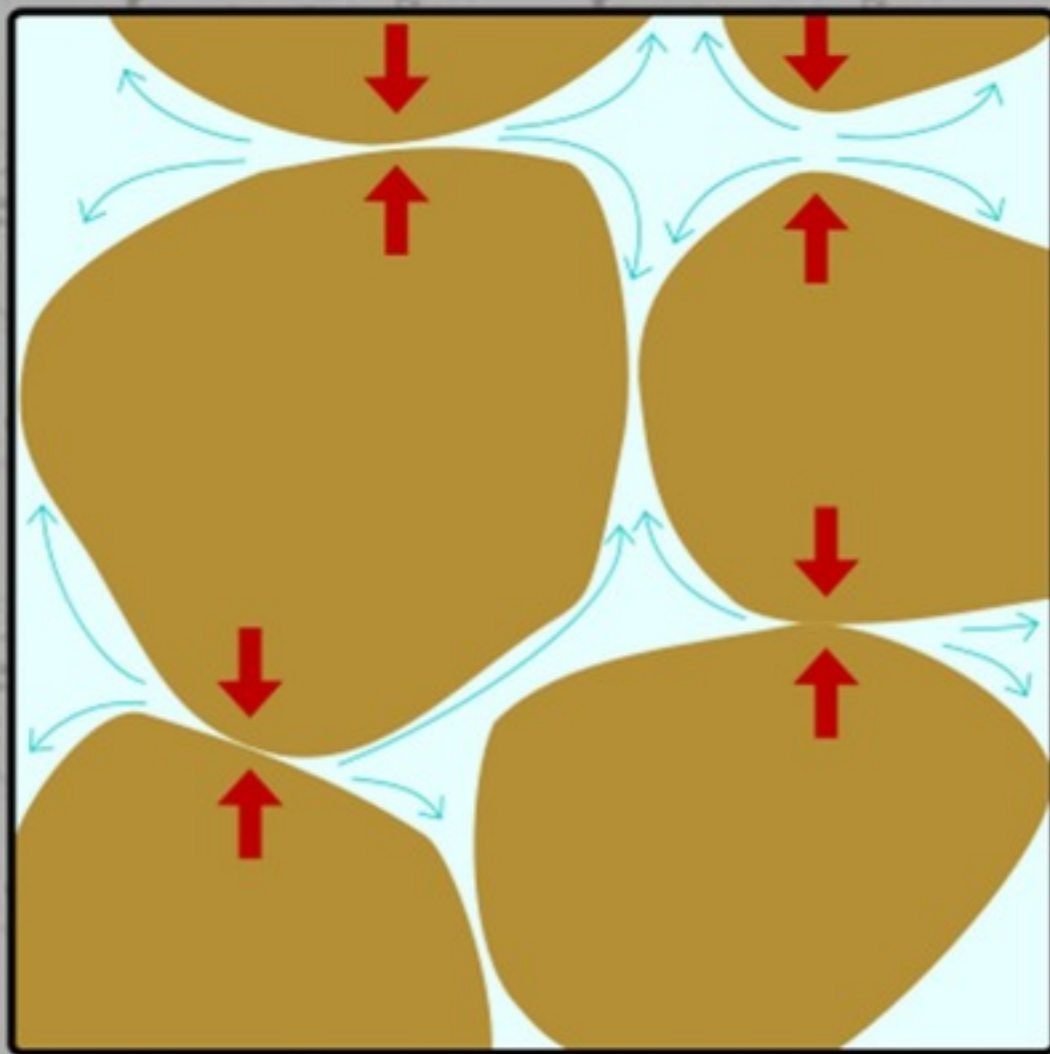
Compaction

- Sediments are **PRESSED TOGETHER** under many layers of sediment in a process called **COMPACTION**.



Cementation

- Sediments stick together.

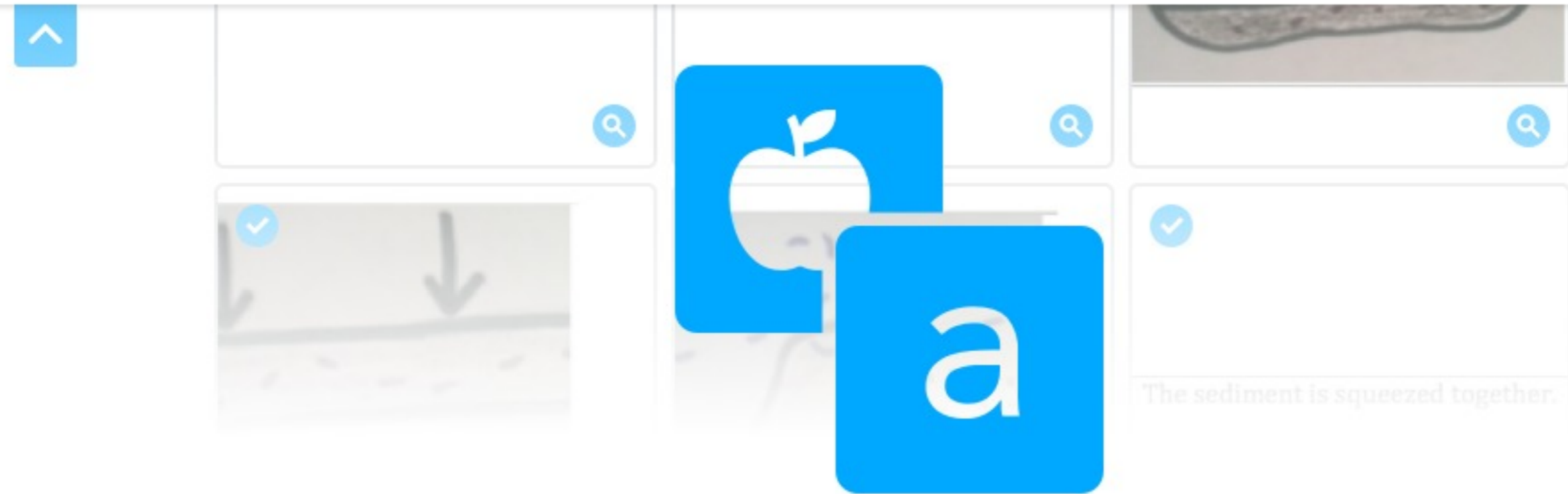




Fossils:

- If you find a fossil it is definitely a sedimentary rock!
- The organism was preserved by the pressure of the sediments!





Matching Pairs

Sedimentary Rock

BEFORE YOU READ

After you read this section, you should be able to answer these questions:

- How do sedimentary rocks form?
- How do geologists classify sedimentary rocks?
- What are some sedimentary structures?

**National Science
Education Standards**

ES 1c, 1d

Quiz

What is the 1st step in sedimentary rock formation?

- Weathering
- Deposition
- Compaction
- Cementation

The weathering of rock creates what?

- Pretty Rocks
- Sediment
- Igneous Rocks
- Metamorphic Rocks

What is the definition of “erosion”?

- The breaking down of rock.
- Sediment being moved to a new location.
- The sediment settling in a new location.
- Small particles of rock.

What is the last step in sedimentary rock formation?

- Erosion
- Deposition
- Weathering
- Cementation