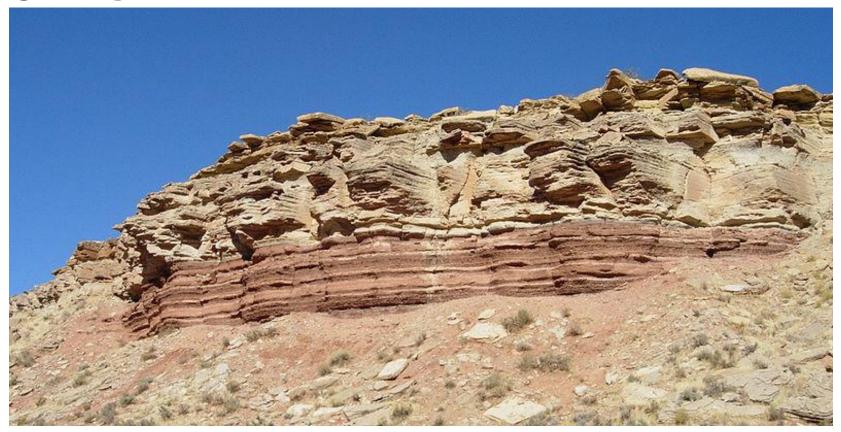
Lesson Objective: You will be able to list and explain the steps of sedimentary rock formation.

Sedimentary Rocks:

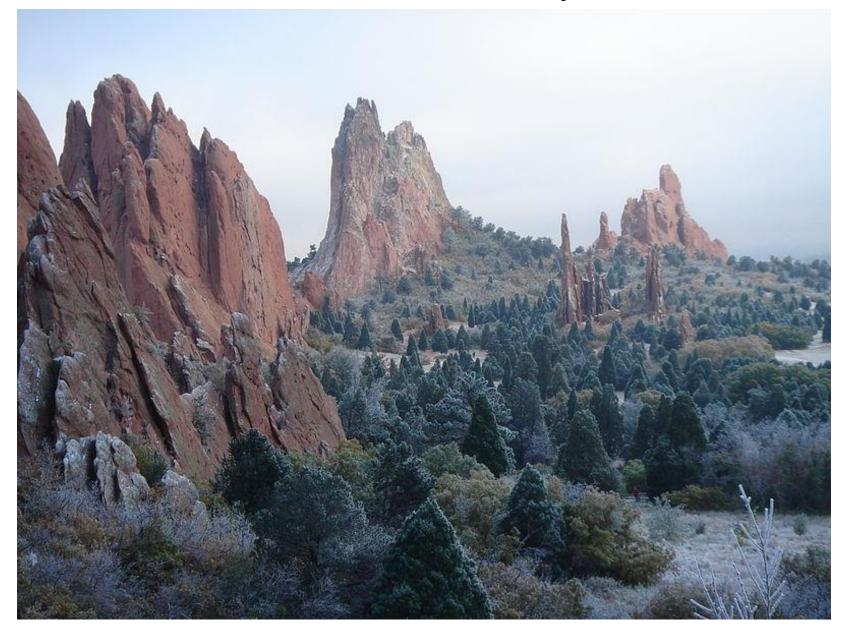
 When Earth's sediments are pressed together over time, sedimentary rock forms.





Picture by Jean-Christophe BENOIST

Garden of the Gods, Colorado



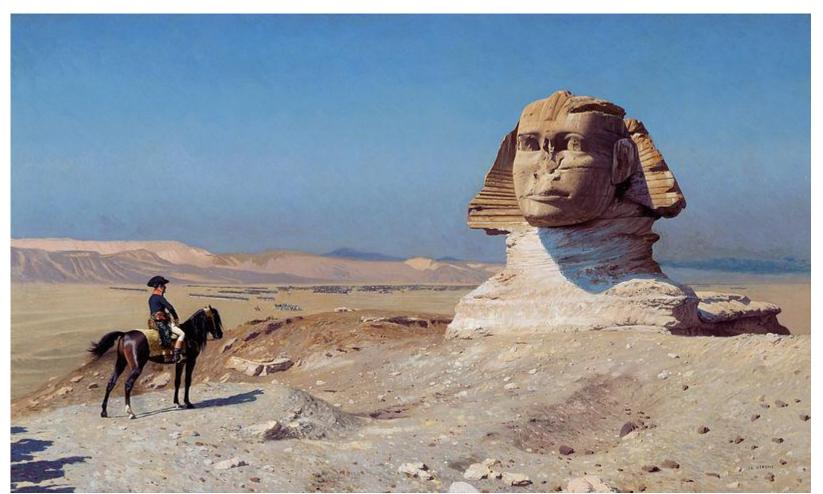


Over 80% of Earth's surface is made up of sedimentary rock!

Steps of Forming Sedimentary Rocks

Step 1: Weathering

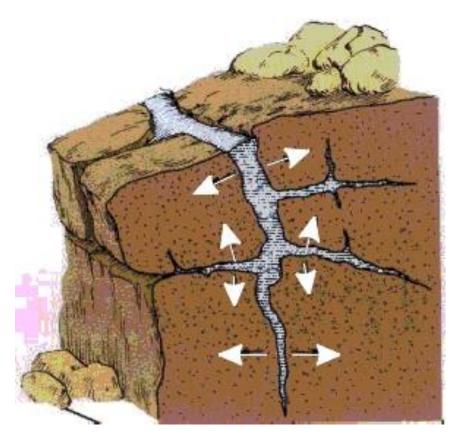
 Weathering breaks down rock into "sediment".



Weathering:

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

• There is <u>no</u> <u>movement</u> in weathering.



Step 2: Sediment

• Weathering creates <u>sediment</u>.



Sizes of **sediments**:

- Pebbles / Gravel
 - Sand
 - Silt
 - Clay









Step 3: Erosion

• *Erosion* moves the sediment to a new location.

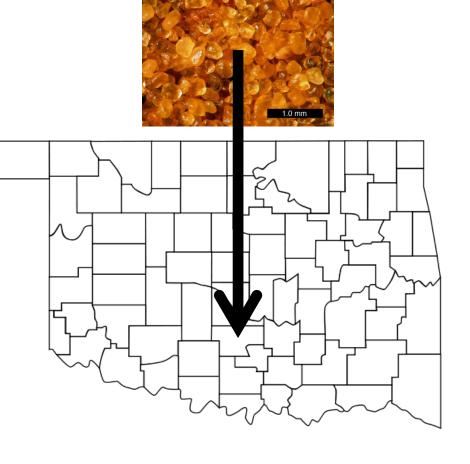
Transported by wind, water, or gravity.





Step 4: Deposition

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



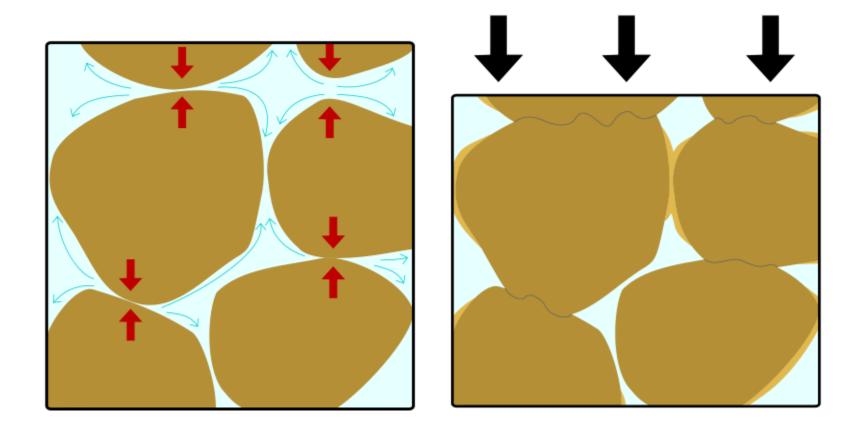
Step 5: Compaction

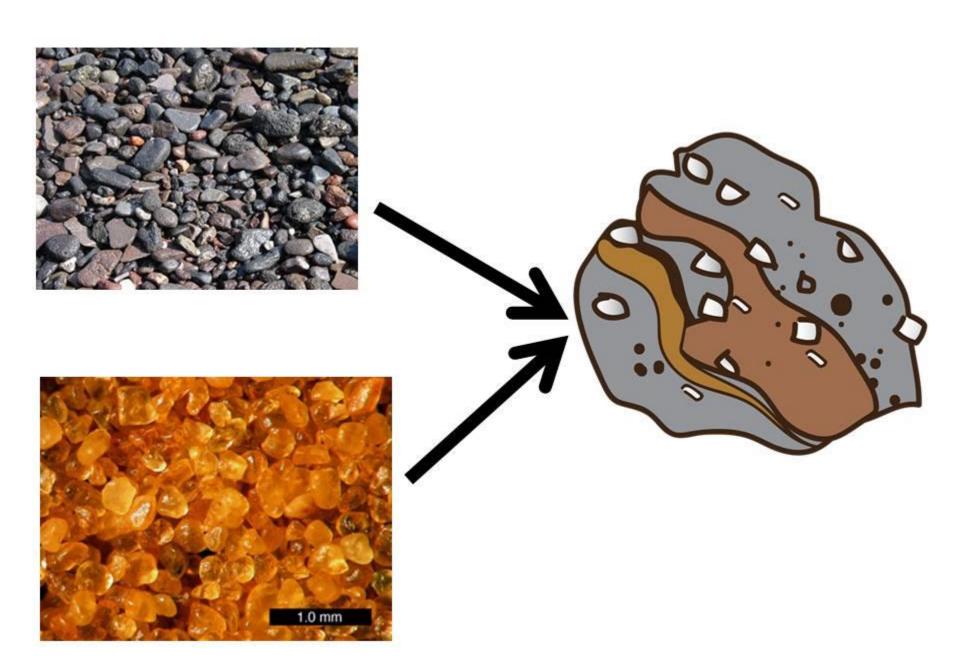
 Sediments are PRESSED TOGETHER under many layers of sediment in a process called COMPACTION.



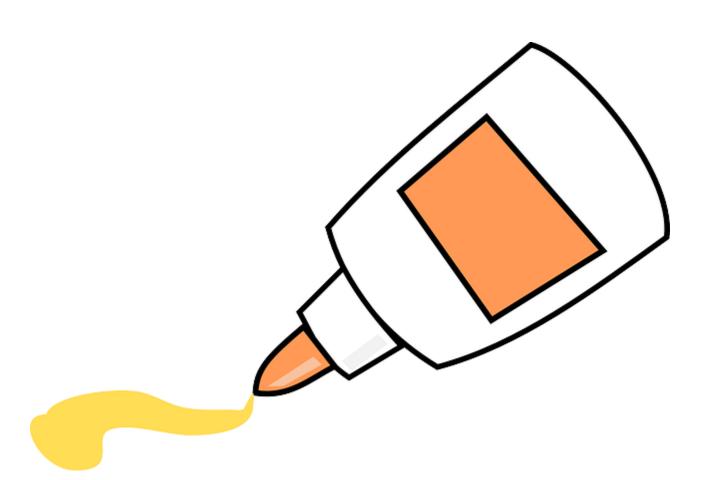
Step 6: Cementation

Sediments stick together.



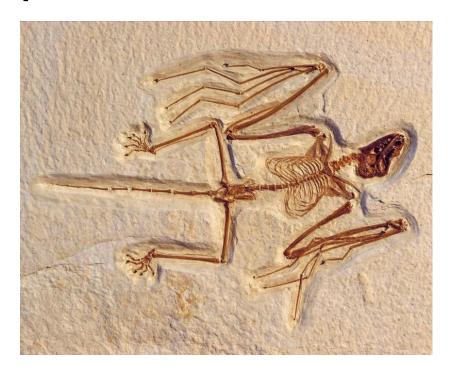


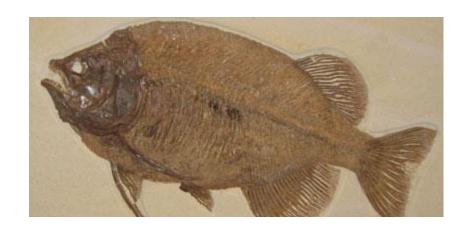
Gluing in the Steps



Fossils:

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





What is the 1st step of sedimentary rock formation?

- A Erosion
- B Compaction
- C Weathering
- D Deposition

- What step is when sediment moves to a new location?
- A Weathering
- B Erosion
- C Deposition
- D Cementation

- Weathering creates what?
- A Compaction
- B Sediment
- C Sedimentary rock
- D Cementation

- What are the final two steps of sedimentary rock formation?
- A Compaction & Deposition
- B Compaction & Cementation
- C Cementation & Deposition
- D Deposition & Erosion

What step is when sediment settles at a new location?

- A Weathering
- B Erosion
- C Deposition
- D Compaction

Partner Practice