

Weathering and Erosion video**Finishing the notes.**

What is weathering?

What causes weathering?

What is erosion?

What causes erosion?

**Learning
target:**

**I can build evidence for an ancient sea by
investigating the way that Limestone is formed.**



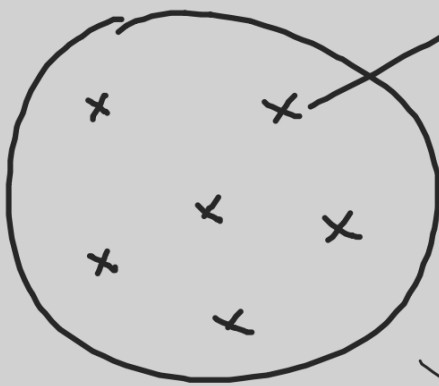
Materials manager pick up your Colorado Basin model from the closet:

- *Clean off the inside with a small piece of paper towel as carefully as you can*
- *Pick up goggles to test the limestone.*



Learning target: **I can build evidence for an ancient sea by investigating the way that Limestone is formed.**

Did you make limestone?



Test your
Limestone in
5-6 places

Spoke person
Share

Learning target: I can build evidence for an ancient sea by investigating the way that Limestone is formed.

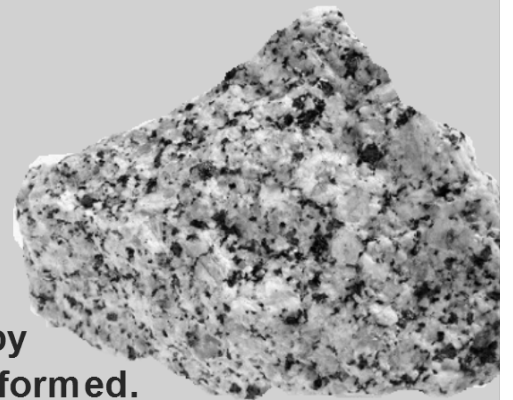


11/08

Sandstone

#5

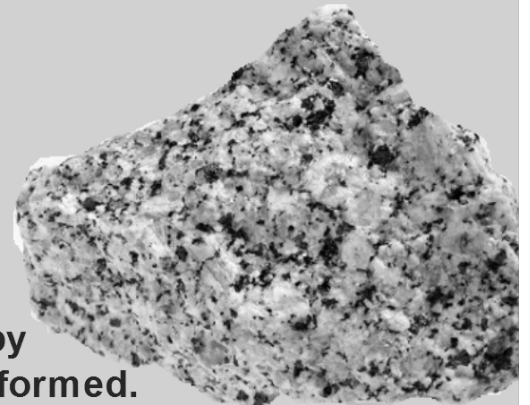
**Where does the sand come from
that you can see in the limestone?**

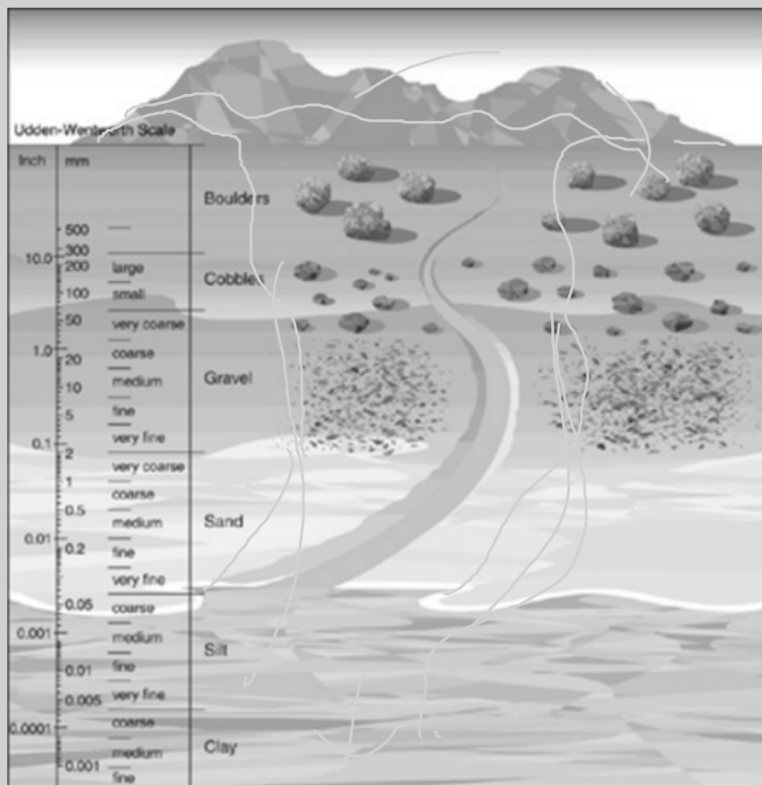


Learning target: **I can build evidence for an ancient sea by investigating the way that Limestone is formed.**

How does this sand get from its source to be deposited in its final destination?

Learning I can build evidence for an ancient sea by
target: investigating the way that Limestone is formed.





Learning target: I can build evidence for an ancient sea by investigating the way that Limestone is formed.

Sandstone

We are going to add a layer of sandstone to the Colorado plateau model.

If you look closely at the photo on the right what can you see?

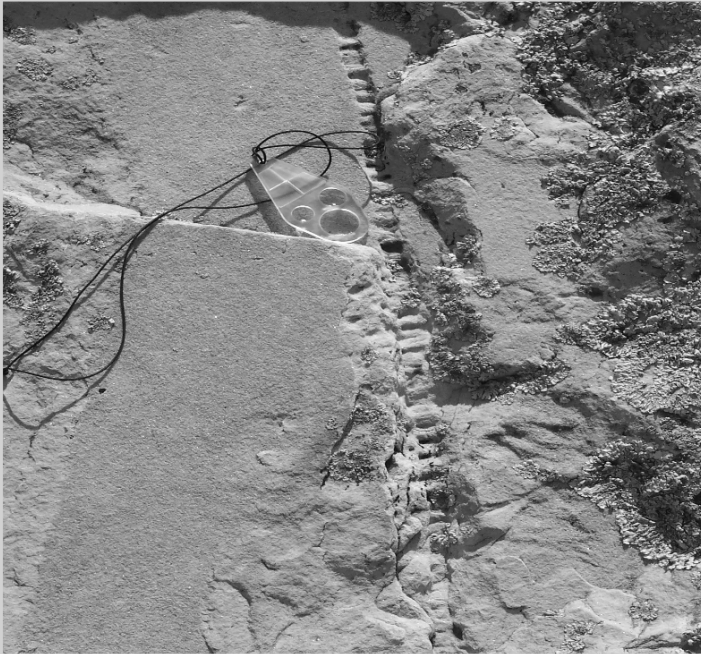


Learning



Ripples in beach sand , such as those in the upper photograph (A) may someday become a rock like the sandstone in the lower photograph (B).

This sandstone was part of a beach over 200 million years ago in the Triassic period.



Sandstone recipe

8 spoons of sand
1.5 rounded spoon of
plaster of Paris
2 clay
45 ml water.
(have 20 ml more
ready)

Add reptile foot marks
to your sandstone.

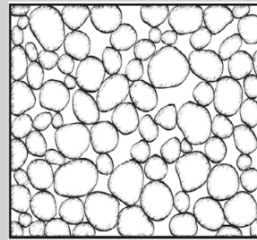
**Make the sandstone in the mixing basin then
pour on top of your limestone layer. Do not get it
up the sides. Make animal fossil tracks!**



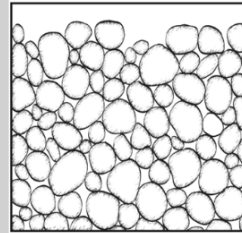
How did this fossil get here?

Formation of Sandstone

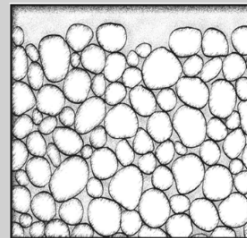
1. Sand is carried by wind or water until it is deposited in a basin.
If animals are present they may leave tracks in the sand.
- 2 Over a long period of time the sand is compacted, pushed together due to the weight of sediments on top of it.
- 3 A chemical matrix glues individual grains together. A process called lithification. This forms the rock we call sandstone.



Sand—loosely packed soon after deposition

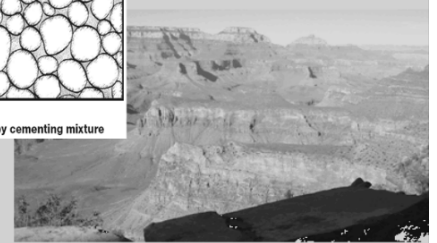


Sand—compacted long after deposition



Sand—surrounded by cementing mixture

Learning
target:





How did this fossil get here?

