

AGENDA

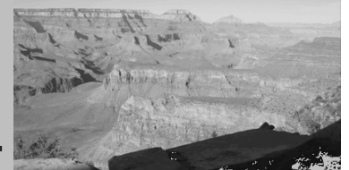
- Reading
- Make limestone ooze
-

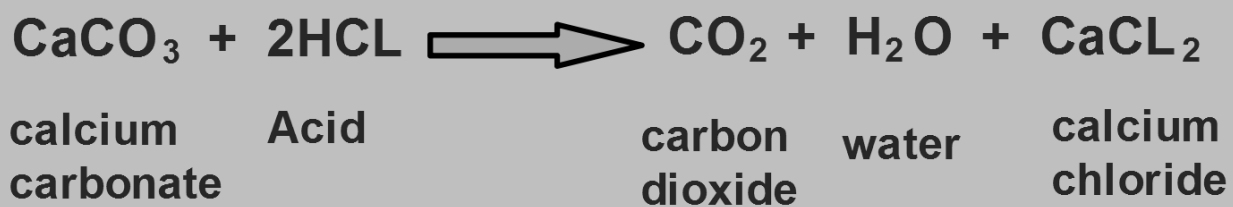
Silently Read page 69:

- Write down one fact you did not previously know.

Learning target:

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





When we added acid to the rock it made a reaction with the calcium carbonate.

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



Making calcareous ooze!!!

The process that occurs in seawater is a little more complex but we will model what scientists are able to observe occurring today.

The processes we see today give us evidence for what occurred in the past.

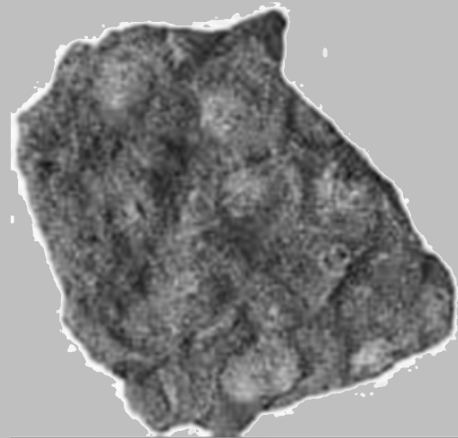
Learning target:

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



Making calcareous ooze

Water like the ancient seas
animals to breathe out CO₂



Learning
target:

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



Make an observation table in your journal

Notes on Seawater

Observations of $\text{Ca}(\text{OH})_2$ cup <i>before</i> bubbling	Observations of $\text{Ca}(\text{OH})_2$ cup <i>after</i> bubbling	Observations of $\text{Ca}(\text{OH})_2$ cup <i>after</i> standing for 5 minutes

SAFETY NOTE: Don't suck up the limewater. Make sure you don't blow so hard that the water splatters into your eyes. If you get some limewater on your hands, rinse them with clear water.


Learning target: I can build evidence for an ancient sea by 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.




Organic Process

 Remains of marine animals. Their shells and skeletons are deposited on the bottom of the ocean

 The calcite and other minerals harden into limestone.

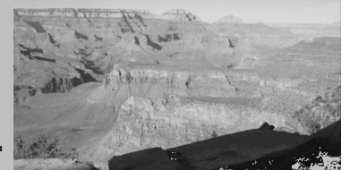
 Remains of animals may also be buried in the carbonate muds and eventually turn into fossils.

Chemical Process

 A precipitate forms when carbon dioxide is exhaled by marine organisms into water containing calcium.

Learning target:

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



Organic Process

- Remains of marine animals. Their shells and skeletons are deposited on the bottom of the ocean
- The calcite and other minerals may harden into limestone.
- Remains of animals may also be buried in the carbonate muds and eventually turn into fossils.

Chemical Process

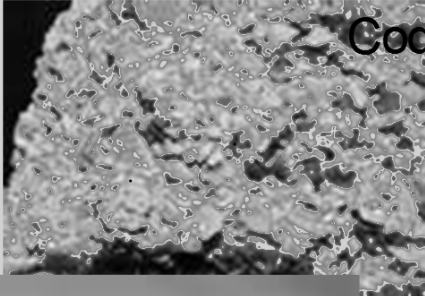
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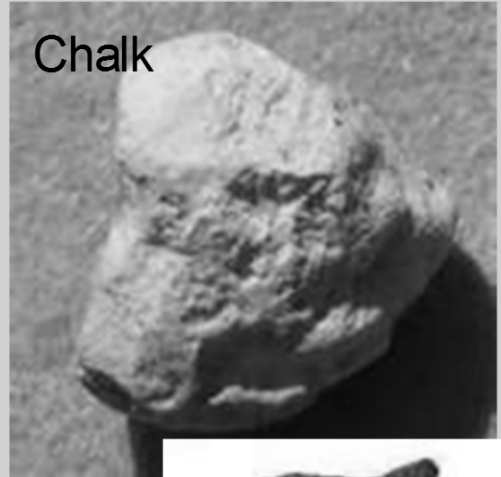


Learning

target: I can make a model of a limestone layer in a basin.



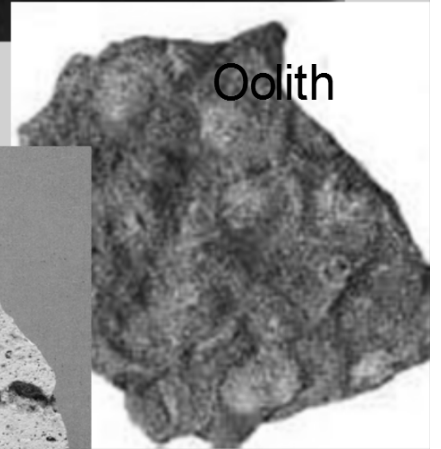
Coquina



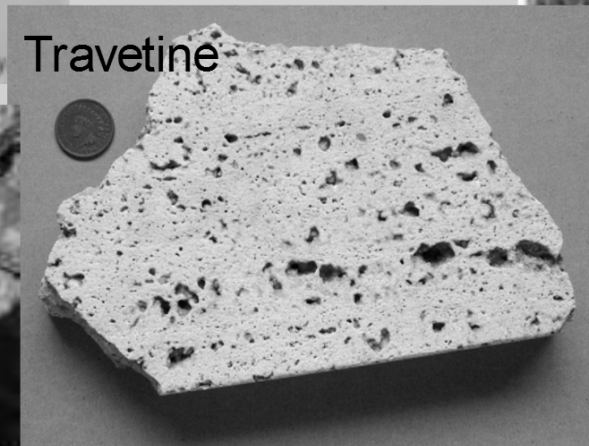
Chalk



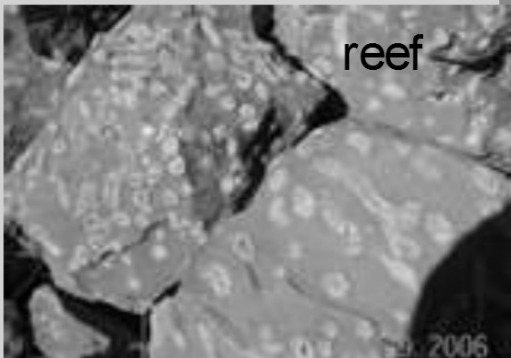
Tufa



Oolite



Travertine



reef

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