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| 4/17/2014 | Sedimentary Notes |
| Major Key Term | definition in own words |
| Key Term | <ul style="list-style-type: none"> definition in own words facts pictures |
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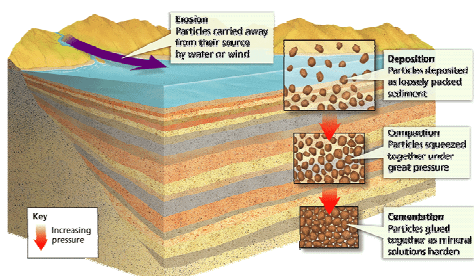
Sedimentary Rock

- When particles (grains) of rocks and minerals, and/or organic remains, are compacted and cemented into new rock




From Sediment to Rock

- Most sedimentary rocks are formed through a series of processes: erosion, deposition, compaction, and cementation.




- Erosion:** particles carried away from their source by water or wind
- Deposition:** particles deposited as loosely packed sediment
- Compaction:** particles squeezed together under great pressure
- Cementation:** particles glued together as mineral solutions harden




Types of Sedimentary Rock


- geologists classify sedimentary rocks by the type of sediment that make them up: clastic, organic, and chemical
- Clastic Rock:** made of broken pieces of other rocks, from fine clay particles to boulders



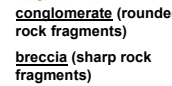
shale (tiny clay particles)



sandstone (sand particles)




conglomerate (rounded rock fragments)




breccia (sharp rock fragments)


- Organic Rocks:** rocks formed by the remains of plants and animals
 - organic: living or once living



coal (plant remains)

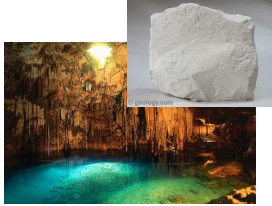


organic limestone (coral, clam, oyster shells)



- **Chemical Rocks:** form when minerals crystallize from a solution, or when crystals are left after solutions evaporate

chemical limestone



halite (rock salt)

Uses of Sedimentary Rock



flint (small silica particles)



sandstone (left) & limestone (right) – soft enough to easily cut into blocks for buildings

limestone also used to make cement & steel



Rocks From Reefs

- **Coral:** tiny animals that produce skeletons that grow together into a coral reef

– when coral die, their skeletons remain, building up the reef

– over time, the coral reef can be compacted and cemented into limestone

– limestone formed from coral in the ocean can find it's way to the top of mountains with marine fossils! Evidence of plate tectonics and biological evolution!

