Sedimentary	Rocks Notes:	Name:		
Sedimentary Rock Exa	amples:			
•	(Made from (Made from (Made from (Fossil fuel	n small sediments like clay and silt) n medium sized sediments, sand) n large sediments like pebbles or fragme burned for energy, organic) arg's bedrock used for buildings, <i>conta</i> te cave formations		
Sedimentary Ro	ock <u>Composition</u> :	(anything that sett	tles out of water)	
Fragments of	(cla	stic)		
	and animal remains (organ			
	that settle out of a	er is gone, the minerals are left behind	Some minerals can	
dissolve in water or ac	cids, when the acid or wa	er is gone, the minerals are left behind	d to form rocks.	
Sedimentary Ro	ck Formation:			
1)	: Formed from	of other rock		
	(pressed together) an	d("glued")	together over time.	
Minerals are the "glu	ie" that cement clastic se	dimentary rocks		
 Clay (Smalle Silt Sand Gravel Pebble (Largest Examples of Clastic State Sta	t Grain Size)	,		
2)	Rock:	out of solution		
Examples:		,		
		& remains.		
Sedimentary Ro	ck Features:			
1) feature. Oldest layer i	: Layers of difference s at the bottom, while the	rent sediment , most youngest/most recently formed is at the	_ Sedimentary rocketop.	
2)	: → Evidence of living the most common type over, some organisms are su	things. Organisms get buried in the lands of fossil, most sedimentary rocks form addenly buried in sediments by landslid	ayers of sediment in water les or mudflows.	
		or action in sand preserv		
		and gets as a		
5) Geode: Spheres of	rock	contained within lime	contained within limestone rock	

Environment	Type of Sediment	Rock	Clastic or non
(WATER)		produced	clastic?
River	Pebbles	conglomerate	Clastic
		rock	Coarse grains
Beach,	Sandy	sandstone	Clastic
shallow			Large grains
ocean			
Bottom of	Silt/mud	shale	Clastic
the medium			Fine grains
deep ocean			
Bottom of	Crushed white chalk	limestone	Non clastic
the deep			Organic
ocean			
Coral reef,	Shells	Coquina	Non clastic
shallow			Organic
water			
Swamp	Organic remains or	Coal	Non-clastic
	plants and organism still		Organic
	containing some energy		
Evaporated	Salt from salt water	Rock Salt	Non-clastic
ocean water			Chemical

How to make a sedimentary rock!

- Step 1. **Weathering**. This is basically **breaking apart existing rock**. It can be mechanical or chemical. Broken pieces of weathered rock is called regolith.
- Step 2. Erosion. This is basically transporting the sediment to a new location. This is called erosion. Erosion is caused by running water, waves, wind, glaciers, and gravity.
- Step 3. **Deposit the sediment**. This is called **DEPOSITION**. When running water or wind slows down, it looses energy. **The less energy there is, the easier it is for a particle to settle out**. For example, water with a lot of energy, like a fast flowing stream, will sweep away most small and medium particles like silt and sand. Only the larger boulders and pebbles will be left behind. A quiet location, like a lake or pond, will allow the small particles to settle out.
- Step 4. **Burial and compaction**. New sediment gets deposited all of the time. The sediment that gets deposited will have new sediment laid on top of it in the future. As more and more sediment piles on top of the old sediment, the **sediment on the bottom gets compacted and cemented together to make a rock**. This can take thousands to millions of years to happen.

Fossils are the remains of ancient organisms. Fossils are usually only found in sedimentary rocks. Remains of organisms can settle to the bottom of a lake or ocean where **they can be buried by sediments**. Organisms may also get **quickly buried in the sediments of a landslide or mudflow**.