**Weathering**

**Weathering is:**

the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of rocks/minerals

at the earth’s surface to make…

1. \_\_\_\_\_\_\_\_\_\_\_ (may form sedimentary rocks)
2. soil

The two main types of weathering are:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (physical changes)

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (chemical reaction)

>>4 causes of **mechanical** weathering :

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ changes
	1. Rocks heat up and cool down
	2. Water \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (at night) and expands ---also called ice \_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ grinding and wearing away of rock by other pieces or rock.

Caused by:

* 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (rivers, waves)
	2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (hills, mountains)
1. Plant growth (\_\_\_\_\_\_\_\_\_\_\_\_ wedging)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (including humans)—digging, burrowing, etc)



>>3 things that cause **chemical** weathering:

1. \_\_\_\_\_\_\_\_\_\_\_\_--dissolves

 (can carve out caves)

1. weak \_\_\_\_\_\_\_\_\_\_\_\_\_
	1. precipitation—due to volcanoes and burning \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. groundwater (carbonic acids)
	3. \_\_\_\_\_\_\_\_\_\_\_\_
		1. Tips of roots
		2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_ (rust or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

What makes rocks weather FASTER?

1. \_\_\_\_\_\_\_\_\_\_\_ rock
2. More \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ area
3. Warm, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ climates
4. Areas with a lot of \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_ slopes, and/or windy
5. Areas with large \_\_\_\_\_\_\_\_\_\_\_\_\_\_ differences

>>note: mountains have a lot of weathering.

Why is this?