**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)

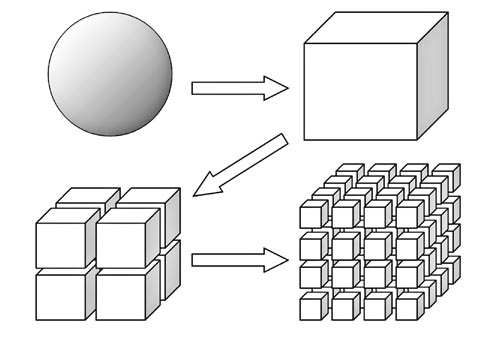
>>4 causes of **mechanical** weathering :

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)

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&docid=lU_z9Tqioa_8tM&tbnid=Sx4yOJNSiB1jaM:&ved=0CAUQjRw&url=http://kootation.com/ara-publish-with-glogster.html&ei=sav1UfOjBZKI9gTy9YCgAw&psig=AFQjCNG8yhMFHKJ9dTrfJuT9g9JjQ-4HcA&ust=1375141046295216)

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

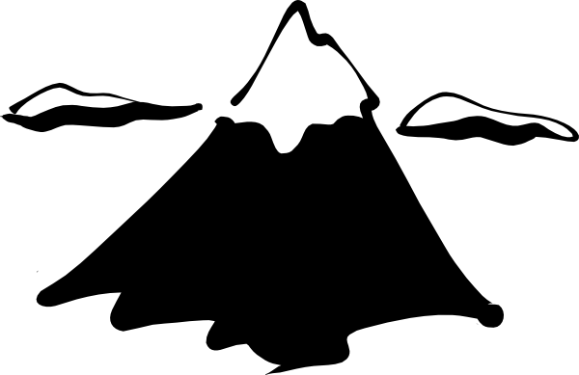
1. \_\_\_\_\_\_\_\_\_\_\_\_--dissolves

(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

[](http://www.google.com/url?sa=i&source=images&cd=&cad=rja&docid=sMud-9QUNBjMPM&tbnid=-aqJf-tflG0O5M:&ved=0CAgQjRwwAA&url=http://bestclipartblog.com/30-mountain-clip-art.html/mountain-clip-art-5&ei=jqr1UaGQEofk8gT94oHYCw&psig=AFQjCNGnRy7CnjSwB7OpfgY73LEj7WEb1w&ust=1375140878343962)>>note: mountains have a lot of weathering.

Why is this?