

DID YOU KNOW...

- * SOIL IS TYPICALLY MADE UP OF 45% ROCKS AND MINERALS, 25% WATER, 25% AIR AND 5% ORGANIC MATERIALS.
- * IT CAN TAKE 100 TO 500 YEARS TO MAKE 1 INCH OF THE SOIL!!
- * WEATHERING = BREAKING DOWN OF ROCKS, CREATING SOILS. EROSION = MOVING OF THE SOILS.
- * OUR EARTH IS ALWAYS, ALWAYS CHANGING! WHILE ONE AREA IS BEING WEATHERED AND ERODED, ANOTHER IS BEING CREATED BY DEPOSITION.

VISIT THESE STATIONS AND FOLLOW ALONG WITH SOME QUESTIONS. SEE IF YOU CAN MATCH THE STATION TO THE REAL-WORLD WEATHERING AND EROSION PROCESSES!

- COASTAL EROSION THROUGH WATER MOVEMENT.
- GLACIAL SCOURING (THE EFFECT OF THE ROCKS IN GLACIERS PERMANENTLY SCRATCHING THE GROUND BELOW.)
- CHEMICAL WEATHERING, AN EXAMPLE OF HOW CAVES MIGHT FORM.
- ROCKS CAN WEATHER EACH OTHER THROUGH FRICTION (RUBBING AGAINST EACH OTHER).
- WIND EROSION, AN EXAMPLE WOULD BE A FARM FIELD OR SAND DUNES ON A BEACH.

IMPORTANT: READ THE DIRECTIONS AT EACH STATION STEP-BY-STEP!!!!

Station 1:

Draw a before image of the cube:

Draw an image after the erosion:

Where have you seen rounded rocks that have been smoothed by erosion?

Which letter does this station represent?

Station 2:

Did you notice fizzing bubbles when you added the vinegar?

What type of rock do you think this might be? (Hint: there is a lot of it in Ohio, and it contains lots of fossils.)

Which letter does this station represent?

Station 3:

Name 3 ways ice might impact a landscape (think about moving, freezing, melting...)

Which letter does this station represent?

Station 4:

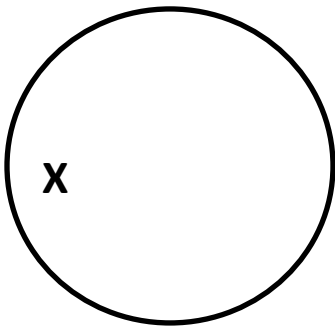
How did the protection that you chose make a difference?

Relate this to a real situation where you have seen loose soils (not just sand) being blown around and how this situation can be fixed.

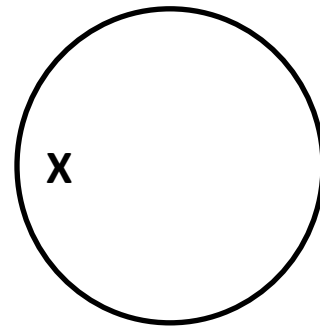
Which letter does this station represent?

Station 5:

Beach Sketch 1 (include measurements):



Beach Sketch 2 (include measurements):



What part do people play in speeding the process of coastal/beach erosion?

Which letter does this station represent?