

Earth and Life History

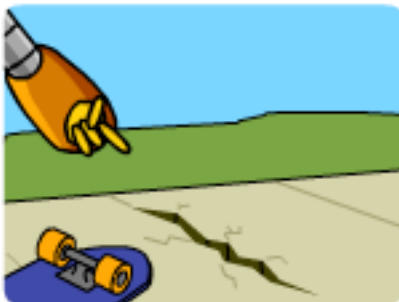
Brainpop—Weathering

Name:

Period:

Watch the Brainpop on weathering, then answer the questions below. You can also look in Chapter 8 for help.

- _____ 1. What is weathering?
- a process that breaks down rocks into smaller pieces
 - a shift in weather patterns
 - the process by which mountains are formed
 - the process by which seasons change
- _____ 2. How might a weathered mountain appear different than an unweathered mountain?
- the weathered mountain would be taller
 - the weathered mountain would appear rounder in shape
 - the weathered mountain would appear more jagged
 - the weathered mountain would contain fewer trees
- _____ 3. What can you infer about ice from the information presented in the movie?
- ice usually causes chemical weathering
 - ice expands as it freezes
 - ice barely causes weathering at all
 - ice does not exert pressure on rocks
- _____ 4. How is mechanical weathering different from chemical weathering?
- chemical weathering happens over a much shorter time frame than mechanical weathering
 - chemical weathering occurs in the tropics; mechanical weathering occurs in temperate climates
 - chemical weathering occurs in mountains; mechanical weathering occurs on flat surfaces
 - chemical weathering changes the chemical composition of materials; mechanical weathering does not
- _____ 5. What might cause mechanical weathering?
- acid rain
 - violent earthquakes
 - growing plants and expanding ice
 - volcanic eruptions
- _____ 6. What impact does weathering have on soil formation?
- chemical weathering adds helpful chemicals to the soil
 - rocks are broken down into smaller pieces, and finally into sediment
 - mechanical weathering adds ice to the soil, which turns into water
 - volcanic eruptions contribute metamorphic rocks to the soil
- _____ 7. What types of rocks are formed by weathering?
- metamorphic rocks
 - igneous rocks
 - sedimentary rocks
 - volcanic rocks
- _____ 8. How long does the weathering process take?
- a few days
 - no more than a month
 - exactly one year
 - years and years
- _____ 9. What process hollows out limestone caves?
- mechanical weathering
 - chemical weathering
 - ice weathering
 - volcanic weathering



Look at the cartoon from the video. What does the crack in the sidewalk Moby is pointing to have to do with weathering?