Weathering and Erosion

Grade 4 Science Worksheet

Name _____ Date _____

Circle the answer.

1. A student claims ice cracks rock with cold alone. Which result shows something else is needed?
   wet rock in a freezer cracks
   warm rock does not crack
   rock in a warm room stays the same
   dry rock in a freezer does not crack

2. A desert rock has a hard top layer and a soft lower layer. Over time it becomes mushroom-shaped. Why?
   the soft layer is eroded by ice only
   wind-blown sand wears the soft lower layer faster
   the hard top layer grows wider
   rain builds up the top layer

3. Two hillsides get the same rain. Hill A is covered in trees. Hill B was cleared. Which hill loses more soil?
   both lose the same Hill A neither loses soil Hill B

4. Why is erosion faster on a steep hill than on a flat field?
   water cannot move on flat land
   steep hills have stronger soil
   gravity makes water run downhill faster
   flat fields have more rain

5. A sidewalk crack has water in winter and weeds in summer. Which explains why the crack grows all year?
   erosion moves the sidewalk away in winter
   ice widens it in winter and roots widen it in summer
   the sun melts it in summer only
   wind fills it in winter and rain fills it in summer

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Answer Key - Grade 4 Science Worksheet

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