#### Practice Questions "Glaciers"

1. \_\_\_\_\_ Which property would best distinguish sediment deposited by a river from sediment deposited by a glacier?

- (1) mineral composition of the sediments
- (2) thickness of the layers of sediment
- (3) age of fossils found in the sediment
- (4) layering and sorting of sediment

The photograph to the right was taken from an airplane flying over the Rocky Mountains. Winter snow covers most of the higher land surface and forests can be seen in the lower elevations.

Which agent of erosion appears to have done most of the excavation to shape these valleys?

- (1) wind
- (2) running water
- (3) valley glaciers
- (4) continental glaciers

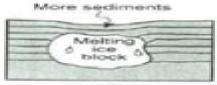


- Which features of the New York State landscape were created by glacial processes?
  - (1) the Finger Lakes and Long Island
  - (2) the Catskills and the Adirondack Mountains
  - (3) Niagara Falls and the Mohawk River Valley
  - (4) the Hudson Highlands and Mt. Marcy

The diagram below represents three stages in the formation of a post-glacial feature.



Stage 1



Stage 2



Stage 3

- What name do geologists give to the feature in stage 3?
  - (1) kettle

(3) finger take

(2) drumlin

(4) parallel scratches

On Mohs scale, ice has a hardness of 1.5. Why can a glacier cause the grooves and parallel scratches (striations) found in bedrock of granite and gneiss?

- The moving ice wears away at the rock surface.
- (2) The ice carries rocks that abrade the rock surface.
- (3) Alternating freezing and thawing wear the rock smooth.
- (4) The weight of the ice pushed on the rock to make it smooth.

# **June 2012 Earth Science Regents**

**Thomas Griffiths** 

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