DIRECTIONS

1. Access Views of the National Parks via a DVD or the internet, and choose the “Multimedia Version”.
2. Click on the Knowledge Centers, and choose the Glaciers knowledge center.
3. Enter the site by clicking on “Explore Glaciers”.
4. Click on the “Monitoring” option on the top toolbar.
5. Choose either the “Benefits of Glaciers” or “Hazards of Glaciers” side bar on the left side of the screen, depending on which section of questions you are answering.
6. After opening either the benefits or hazards section, you will see 5 buttons on the bottom right. Click on the buttons to access information related to each set of questions.

BENEFITS OF GLACIERS

Reservoirs of Water:

1. From what source do a number of the world’s desert regions receive water?

2. Glacial runoff, the term used to describe the melted water that flows down off a glacier, contributes water to desert regions in times when they need it the most. When are these times?

3. Glacial deposits also act as reservoirs for ________________________________.

Commercial Value of Glacier Ice:

1. List 4 ways that people all over the world have used glacier ice:
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Electric Power Generation:

1. Electric power generation is enhanced from ________________________________.

2. During the winter, how much of Switzerland’s energy production is generated by water released from glacier reservoirs?

http://www.nature.nps.gov/views/
Tourism:

1. List 5 ways that tourists can enjoy glaciers as recreational resources:
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Habitats:

1. The increase or decrease in glacier area significantly impacts what 2 ecosystems?

2. Describe what happens in wetland communities as a glacier retreats and how this is beneficial to the species living in the area.

HAZARDS OF GLACIERS

Icebergs:

1. List 3 things that are put in danger by icebergs:
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Surging:

1. Describe the surging and advancing of glaciers.
Outbursts:

1. Catastrophic outburst floods result from the failure of _____________________.

2. Draining of glacier-damned lakes occurs either ______________________ or
   ______________________ a glacier dam.

3. Describe the resulting destruction of an outburst flood and the major hazards.

Ice Avalanches:

1. Where is the threat from ice avalanches most apparent?

2. Which is more common: an ice avalanche or a snow avalanche?

3. Why is it difficult to monitor the development of ice avalanches?

4. List 2 reasons for continuing to research ice avalanches:
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Sea Level Rise:

1. Where is most of the world’s glacier ice held?

2. How much of the planet’s freshwater supply is held in these places?

3. Describe, in detail, the 3 major consequences of rising sea levels.
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