Name _____

Land Ice

PART A: Mass Balance

1: Explain what it means for a glacier to be in equilibrium.

2: What evidence could scientists use to show whether or not a glacier is in equilibrium?

PART B: How Glaciers Move

1: The Jakobshavn Glacier is very far from where most of us live. Do you think it is important for all of us to pay attention to the speeding up of the movement of glaciers in Greenland? Why or why not?

PART C: Make a Glacier

1: What causes glaciers to flow?

2: When the glacier initially flowed, what shape did the front of the glacier take?

3: What part of the glacier flows the fastest? Why?

4: Describe the difference between the flow rates before and after water was added via the straw. Why do you think this change occurs?

5: Why is it important for scientists to find out how fast glaciers are moving?