# Student ID#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# **GLACIER DATA SHEET**

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| --- | --- |
| TIME ( ) | DISTANCE (CM) |
|  |  |

Total time for glacier to flow to reach bottom:

Total distance glacier traveled:

Calculate the flow rate (speed) of the glacial flow: Hint: Flow rate = distance/time

|  |  |  |
| --- | --- | --- |
| STUDY SITE | OBSERVATIONS | INFERENCES |
| MODEL GLACIER |  |  |
| REAL LIFE GLACIER |  |  |

|  |  |
| --- | --- |
| SIMILARITIES | DIFFERENCES |
|  |  |

1. Glaciers move large boulders, rocks, and gravel, what would all this rock material do to the valley surface underneath the glacier?
2. What will happen over a long period of time if the glacier continues to scratch the ground?
3. The glaciers moved very slowly, what is causing them to move at all?
4. What caused the ***striations*** (stripes) in the glacier?
5. What do you think the different layers of Gak represented on a real glacier?
6. What would happen to all of the material the glacier moved down the valley? Where will it end up?
7. Below, make a sketch of a glacier in a valley, be sure to label it correctly according to our class discussion.