

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Percentage of Water in Snow Protocol 2**

**\*\*\* Adapt this document to your students’ level \*\*\***

1. **Weight an empty beaker and note the weight in grams.**

*The weight of the empty beaker is \_\_\_\_\_\_\_\_\_\_\_\_g.*

1. **Use the beaker to take a sample of snow (without compacting it).**
2. **Weight the full beaker and note the weight in grams.**

*The weight of the full beaker is \_\_\_\_\_\_\_\_\_\_\_\_g.*

1. **Calculate the net weight of the sample.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **-** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_=\_\_\_\_\_\_\_\_\_

*Weight of the full beaker Weight of the empty beaker Net weight*

1. **Note the volume of snow in the beaker in millilitres.**

*The beaker contains a volume of \_\_\_\_\_\_\_\_\_\_\_\_ ml of snow.*

1. **Use the formula to calculate the snow sample’s density.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_

*Net weight of the sample Volume of the sample Density*

1. **Compare snow density to water density (1g/ml), thereby eliminating the units.**

\_\_\_\_\_\_\_\_\_\_g/ml ÷ 1 g/ml = \_\_\_\_\_\_\_\_\_\_\_

*Density of the sample Density of water*

1. **Convert this result into percentage**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ x 100 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Result Percentage of water*

1. **Repeat steps 2 to 8 for each type of snow and note the results in a table.**

|  | *Aqilluqaq* | *Sitilluqaq* | *Pukajaq* |
| --- | --- | --- | --- |
| Net weight of the sample (g) |  |  |  |
| Volume of the sample (ml) |  |  |  |
| Density of the sample (g1/ml) |  |  |  |
| Comparison to water density |  |  |  |
| Percentage of water in the sample (%) |  |  |  |