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| 8th Grade Science  **Snow Science: How Snow Forms** | Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pr. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Use the information on the website below to answer the questions that follow. Do both sides!

<https://nsidc.org/cryosphere/snow/science/formation.html>

1. What are the conditions required for snowflakes to form?
2. Describe the conditions that may keep snow from forming, even if the atmosphere is very cold. Give an example.
3. What can change snow as it’s falling and after it lands?
4. What causes layering in the snowpack?
5. What are snow crystals made of?

Click on “Snow Characteristics” on top left and continue.

1. In your own words, define the term “snowpack.”
2. Why is snow a good insulator?
3. Describe how and why the temperature of snow varies in the snowpack.
4. What is snow-water equivalence?
5. Why does melting snow yield so little water?