Laura McShane

**Story of Snow** 60 min

Objective:
Identify the properties of snowflakes

Big Idea:
How does temperature affect the state of matter for water?

1. Warm Up / Anticipatory 20 min

Share these books:

Video Resource - available through BookFlix at Infohio.org

- *Snowflake Bentley*
- Plot Summary: This Caldecott Medal-winning book poetically describes the life and work of Vermont farmer and photographer Wilson Bentley. From the time he was a small boy, Willie was fascinated by snow.

More resources here: [http://snowflakebentley.com/bio.htm](http://snowflakebentley.com/bio.htm)
[https://cml.bibliocommons.com/list/share/1283534557_indypl_carriew/1430471157_explore_the_science_of_crystals_from_minerals_to_gems_to_snowflakes](https://cml.bibliocommons.com/list/share/1283534557_indypl_carriew/1430471157_explore_the_science_of_crystals_from_minerals_to_gems_to_snowflakes)

Spanish resource: [Nieve Snow](http://snowcrystals.com/)

*And while the snow is here*
*this brief moment,*
*let us take a walk and see how beautiful*
*the world is* –*Cynthia Rylant*
2. Investigation and New Learning 20 min

How to catch your own Snow Crystals - see Wonders with Charlie or :

1. Chill a piece of dark cardboard or foam outside for at least ten minutes.
2. Hold out the board to catch snow flakes
3. Use a magnifying glass to look at the snowflakes
4. Draw your snowflake observations

We will also build giant paper snowflakes

3. Review & Check for Understanding 30 min

Vocabulary: matter, solid, liquid, gas, vapor, molecule, symmetry, crystal, solstice, hexagon, precipitation

For older students: Did scientists discover a new form of matter?
Resources

- Did scientists discover a new state of matter? [https://youtu.be/O1ALyMFq0c](https://youtu.be/O1ALyMFq0c)