

Laura McShane

Story of Snow 60 min

Objective:

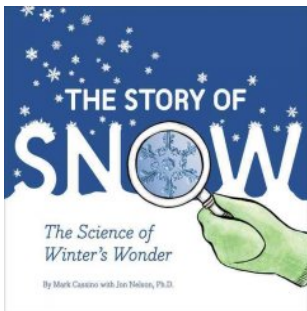
Identify the properties of snowflakes

Big Idea:

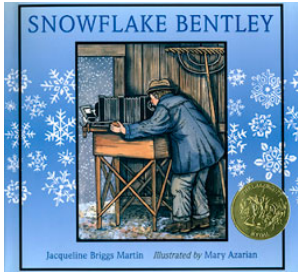
How does temperature affect the state of matter for water?

1. Warm Up / Anticipatory 20 min

Share these books:



[The Story of Snow The Science of Winter's Wonder](#) by Mark Cassino with Jon Nelson, Ph.D. illustrated by Nora Aoyagi.



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>

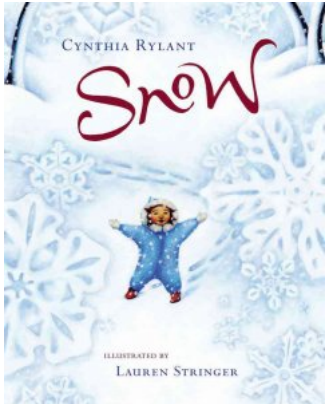
https://cml.bibliocommons.com/list/share/1283534557_indypl_carriew/1430471157_explore_the_science_of_crystals_from_minerals_to_gems_to_snowflakes

<http://snowcrystals.com/>

<https://sharemylesson.com/teaching-resource/ice-crystals-extraordinaire-%E2%80%93-snowflakes-247791>

Spanish resource : [Nieve Snow](#) by Erin Edison

*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?](#)



<https://www.vox.com/science-and-health/2019/12/18/21024709/winter-solstice-2019>





[What Happens in Winter](#) by Sara L. Latta

Resources

- Did scientists discover a new state of matter? <https://youtu.be/OIALYmFpg0c>
- Winter Solstice <https://www.vox.com/science-and-health/2019/12/18/21024709/winter-solstice-2019>