

THE CONNECTIVITY OF MATHEMATICS TO SCIENCE IN ELEMENTARY SCHOOL

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SCIENCE AND MATH INTEGRATION LESSON: SNOWFLAKES!

Commit to an Outcome

- * Have you ever seen snow? Where? Have you examined individual snowflakes?
- * Carefully examine the snowflake photos provided. What patterns do you see? List them in your science notebook.

Expose Ideas

- * Share your ideas with your group. Choose one person to present your group's ideas to the class.

Confront Ideas

- * How can you create paper snowflakes with similar properties to those you observed at the website?
- * Use the copy paper provided to create a paper snowflake.
- * Make sure your snowflake has properties like the ones at the website.
- * Describe your snowflake in words in your science notebook.
- * Compare your snowflake with those made by others in your group.
- * Why are they different? Are any exactly the same? Explain your thinking.

Extend Ideas

- * How do you think snowflakes are classified?
- * Examine the snowflakes at the website provided. How would you classify them?
- * Describe each group you identified. Do any of the snowflakes not fit the groups you made?
- * Let's read about Snowflake Bentley, the man who photographed snowflakes. Where do you think he lived? How long ago do you think he lived?
- * As we read the story, think about problems he overcame in photographing snowflakes.
- * What happened to the snowflakes Snowflake Bentley photographed?

Resource Websites

- * <http://snowcrystals.com>
- * <http://snowflakebentley.com/mullet.htm>
- * <http://www.photolib.noaa.gov/nws/newsnowice1.html>
- * <https://www.acs.org/content/acs/en/pressroom/reactions/videos/2016/how-do-snowflakes-form.html>