

snowflake bentley

STORYBOOK STEM



PAPER
SNOWFLAKE

CREATED BY
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AND KATIE KING

Quick and Effective *literacy* Instruction

COMPREHENSION

3. Students complete the half sheet to demonstrate their understanding of setting.

Name: _____

Setting

Why is setting important in the story?

The Setting

The setting of a book is **WHEN** and **WHERE** the story takes place.

Describe the Setting

What time of day? Where is this?
Could this be a setting for **Snowflake Bentley**?



Describe the Setting

4. Optional Activity: Flyers! apostrophe students ready by
- Pair up with a partner. Describe a story that you could write that takes place in this location. What might be a possible **PROBLEM** that story?

Dig Deeper Into the Text!

Teacher Questions for **Snowflake Bentley**

"Why does the author start the book 'In the days when farmers worked with ox and sled...'? What is the purpose?"

"What is the camera like that Willie's parents bought for him? Why is the camera so big?"

"How do you know that Willie is a hard worker?"

"How did Mr. Bentley spread the word about what he learned?"

"Did Mr. Bentley make a profit off his snowflake research?"

"What do we know now about snowflakes thanks to Mr. Bentley?"

TEACHERS: PRINT ON COLORED PAPER AND LAMINATE. USE THIS BOOKMARK YEAR AFTER YEAR TO HELP EXTEND STUDENTS' THINKING!

Intended Use



SETTING: Describe the Setting

Name: _____



Apostrophe

An apostrophe can be used to show possession.

Willie's camera



his father's herd

the world's expert

failures

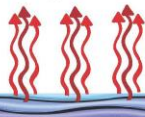


lack of success



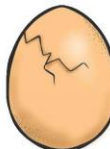
silliness

evaporate



water vapor rises into the air

delicate



easily broken

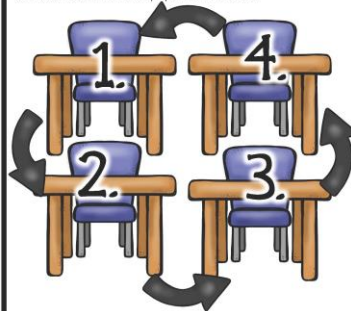
ACT IT OUT!

"After going over the definition of the words, split the class into groups of 2-4 students. Students should use their bodies to act out the words and their words mean. Give the students enough time for words. Kids should



COLLABORATIVE VOCAB SCOOT

"Students will rotate to four different desks. They will draw a picture and write a synonym or short definition for the word. Tell them to LEAVE the paper on the desk!



"At the end the student will go back to his or her seat and analyze the drawings and definitions. Allow some share time for students to make observations to the whole class.



snowflake **STEM**



**PAPER
SNOWFLAKE**

what we know about
snowflakes

**PAPER
SNOWFLAKE**
Snowflake Bentley
Name: _____

STEM CHALLENGE
Can you create a hexagonal
(six-sided) snowflake
out of paper?

Snowflakes are made out of ice
_____.

The ice crystals are formed when tiny
drops of water called _____
freeze and join together.

Snowflakes are hexagonal, which means
that they always have _____ sides.

Snowflakes are _____
_____ means that they have mirrored
_____ sides.



hexagonal
having six sides



symmetrical
having an invisible line that reflects or mirrors identical sides
when a shape is folded in half



crystal
a clear, transparent ice formation



molecule
a very small particle