

★ WINTERTIME SCIENCE EXPERIMENTS

Extend students' learning about icy-weather topics with these ideas:

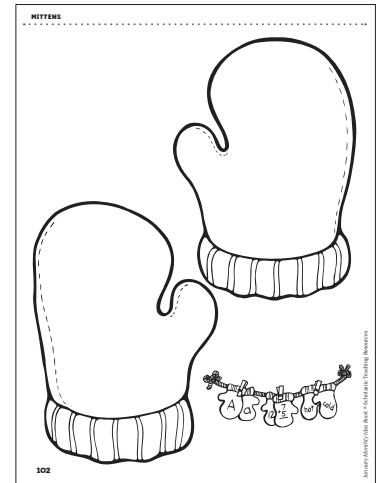
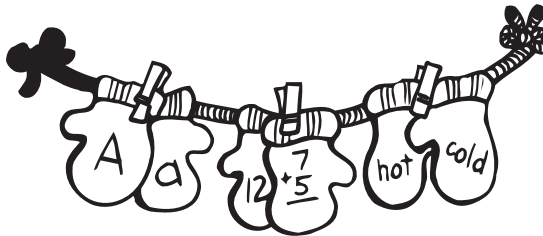
Ice Expands: What happens to water when it freezes? After students share their thoughts, conduct a simple experiment. First, fill a plastic container halfway with water. Mark the water level with a permanent marker or wax pencil. Then place the container in a freezer. After the water has frozen solid, remove the container and show it to students. Discuss the level of the water, explaining that water (a liquid) expands—or takes up more space—as it freezes into ice (a solid).

Salt Water: Ask students if they think salt water can freeze. After they respond, explain that salt water does freeze, but at a lower temperature than plain water. Point out that glaciers, icebergs, and polar caps in the oceans are made of salt water. Then invite volunteers to identify on a globe some areas of the earth where salt water might freeze in nature.

Traction: Explain that salt and sand are often used to make ice less slippery on sidewalks and roads. Then ask students to tell which they think provides the best traction (or grip): salt or sand. To test their responses, divide the class into small groups. Give two ice cubes to each group. Ask the groups to sprinkle salt on top of one ice cube and sand on the other. Have each group invert its ice cubes then slide them across a table. Which one has the best traction? Finally, have students place the ice cubes on a paper towel, sprinkle more salt and sand onto the appropriate cubes, and observe to see which one melts faster.

★ MITTEN MATCH

Prepare a variety of matching activities to give students practice in developing skills, such as letter recognition, math facts, opposites, and words and their definitions. Simply photocopy and cut out a supply of the mitten patterns on page 2. Then, on each pair, record the words, images, or math facts you'd like students to match. They can match the mitten pairs, then attach them to a clothesline in the classroom.



NAME _____ DATE _____

Wintry Word Find

Find these words in the puzzle below:

CONDENSATION CLOUD CRYSTAL FROST
 ICICLE MOISTURE PRECIPITATION SNOW
 SNOWFLAKE SNOWMAN STORM WINTER

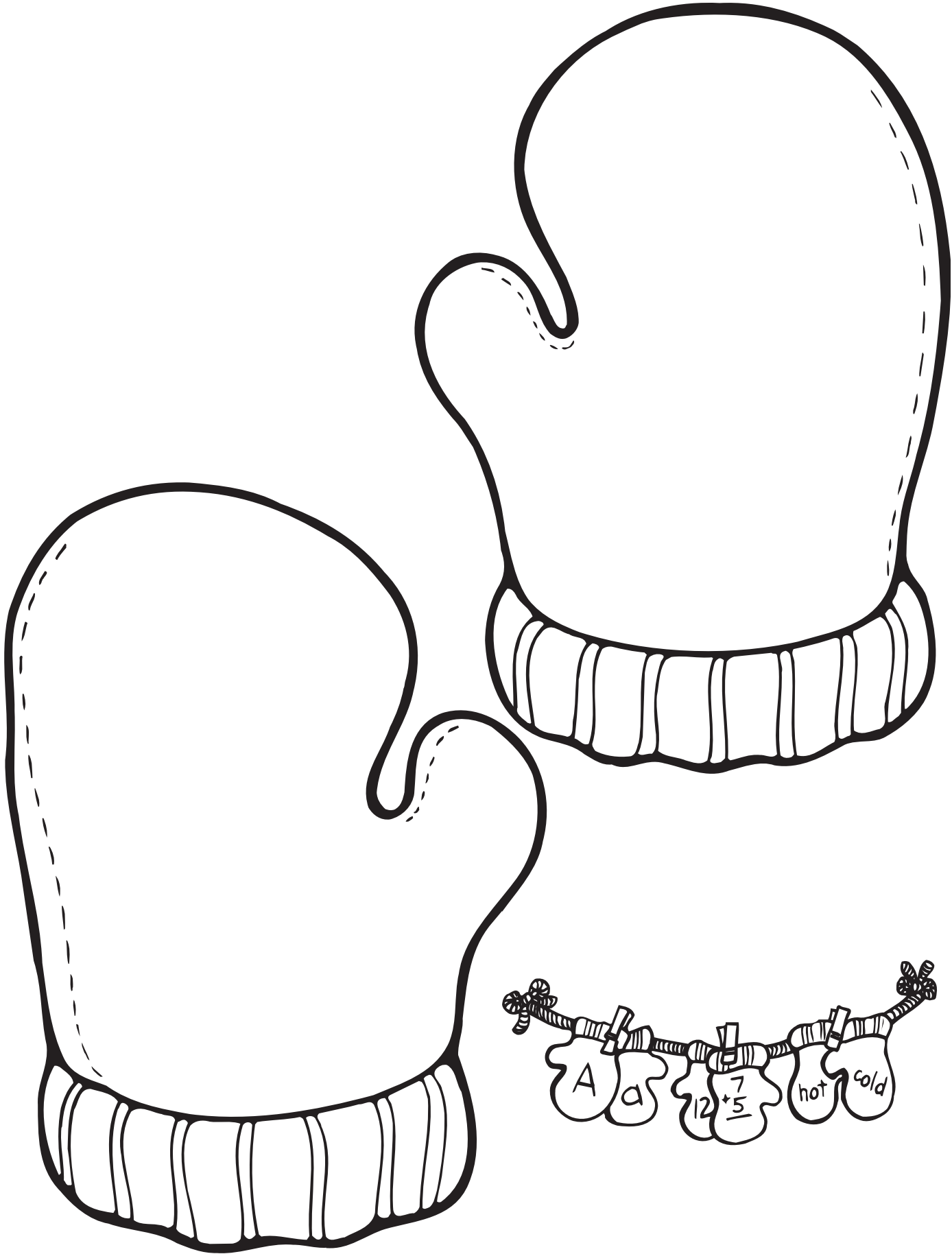
G	N	M	K	L	O	P	L	K	M	J	N	H	G	A	S	W	E	R	T	X
A	S	W	D	V	F	R	T	F	V	G	E	S	E	D	F	T	G	H	Y	U
F	R	I	E	S	N	O	W	F	L	A	K	E	I	C	F	T	O	R	N	
O	E	S	D	N	R	O	T	G	H	N	Y	F	R	C	U	S	W	O	M	
A	S	F	R	O	S	T	E	C	U	D	I	C	E	C	V	M	I	G	D	
A	O	C	V	W	P	R	E	C	I	P	I	T	A	T	I	O	N	T	Y	
X	L	C	D	M	M	O	N	R	T	R	A	T	I	O	N	I	T	N	O	
Q	U	B	A	C	O	T	Y	E	S	A	E	S	L	A	S	E	X	R		
A	T	C	O	N	D	E	N	S	A	T	I	O	N	L	E	T	R	A	T	
Z	I	L	C	H	A	R	A	T	T	O	C	O	S	D	U	B	N	M	U	
A	O	O	B	N	M	J	K	A	A	R	I	E	W	T	I	R	E	X	C	
W	N	U	D	B	A	L	Z	L	O	M	C	C	D	R	E	E	G	H	Y	
M	I	D	N	P	G	H	T	V	D	E	L	T	F	P	A	O	T	K	S	
A	S	D	E	W	Q	X	C	V	J	A	E	U	E	D	U	P	L	L	T	

Using six of the words from the puzzle, write about what you have learned about wintry weather. If you need more space, use the back of this page.

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★ WINTRY WORD FIND

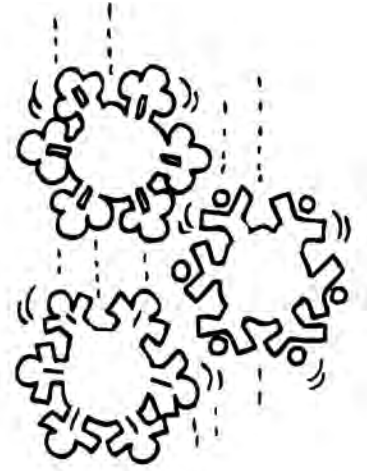
Discuss the role that the water cycle plays in the formation of wintry weather. Also, talk about the different forms that frozen water can take, such as frost, snow, and icicles. Then, to further expand and reinforce students' wintry weather vocabulary, have them complete the word find on page 3. After they have searched for all of the words listed in the word bank and circled them in the puzzle, have students use some of the words in the context of their own writing. That's one way to make vocabulary words stick!



Wintry Word Find

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G	N	M	K	L	O	P	L	K	M	J	N	H	G	A	S	W	E	R	T	X
A	S	W	D	V	F	R	T	F	V	G	E	S	E	D	F	T	G	H	Y	U
F	R	I	E	S	N	O	W	F	L	A	K	E	I	C	F	T	G	B	N	B
Q	E	S	D	N	R	G	T	G	H	N	Y	F	R	C	U	S	W	O	M	O
A	S	F	R	O	S	T	E	C	U	D	I	C	E	C	V	M	I	G	D	P
A	O	C	V	W	P	R	E	C	I	P	I	T	A	T	I	O	N	T	Y	T
X	L	C	D	M	M	O	N	R	T	R	A	T	I	O	N	I	T	N	Q	P
Q	U	B	O	A	C	O	T	Y	E	S	A	E	S	L	A	S	E	E	X	R
A	T	C	O	N	D	E	N	S	A	T	I	O	N	L	E	T	R	A	T	T
Z	I	L	C	H	A	R	A	T	T	O	C	G	O	S	D	U	B	N	M	U
A	O	O	B	N	M	J	K	A	A	R	I	E	W	T	I	R	E	X	C	S
W	N	U	D	B	A	L	Z	L	O	M	C	C	D	R	E	E	G	H	Y	I
M	I	D	N	P	G	H	T	V	D	E	L	T	F	P	A	O	T	K	S	C
A	S	D	E	W	Q	X	C	V	J	A	E	U	E	D	U	P	L	L	T	Y

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Wintry Word Find, page 3

