

Struggle to find ways to keep students engaged during the cold, winter months?


Don't spend any more time planning, searching, or brainstorming. Everything you need is in this easy to use download!

The image displays four overlapping worksheets designed for winter-themed science experiments. The top worksheet, titled "WHAT WILL MAKE HOT CHOCOLATE PACKETS DISSOLVE THE FASTEST?", includes a table with columns for "Name", "Terry", and "Stirring". Below it is a worksheet for "Snowman Snot" featuring a drawing of a snowman and a bottle. The middle worksheet, "Snowball Catapult", includes a drawing of a snowman and a task: "Using the materials on the table snowball catapult. Plan with your use the materials, build the cat strengths and weaknesses, the". The bottom worksheet, "Create Your Own Snow!", features a large drawing of a snowman and lists materials (3 cups of baking soda, 1/2 cup of hair conditioner, Large Container, Measuring Cups) and a procedure with five steps. To the right of the worksheets is a "Melting Hands" worksheet with a drawing of a hand and a task: "You have been given a Frozen hand. It is your job to melt the ice without touching it with your hands. Use the stopwatch to time how long it takes you." Below the task is a table with columns for "Strategies That Worked" and "Strategies That Didn't Work", followed by a section for reflection: "How long did it take you to melt the hand?", "How long did it take you to melt the hand using your own hands helped you melt the hand?", and "If you had a chance to do this again, what would you do differently?".

WINTER SCIENCE

Snowman Snot

Name: _____



Materials

- ¼ cup of water
- ¼ cup of white glue
- ¼ cup of liquid starch
- Green food coloring
- Mixing bowl
- Spoon
- ¼ Cup M

Procedure

Step 1: Pour
Step 2: St
Step 3: A
Step 4: S
Step 5: 1
stretch
Step 6:
Step 7:
Observ


WHAT WILL MAKE HOT CHOCOLATE PACKETS DISSOLVE THE FASTEST?

Name: _____

Temp	Stirring
Pour h	packet


Snowball Cata

Name: _____



Task:
Using the materials on the table snowball catapult. Plan with your use the materials, build the cat strengths and weaknesses, the

Melting Hands



Task:
You have been given a frozen hand. It is your job to melt the ice without touching it with your hands. Use the stopwatch to time how long it takes you.

Strategies That Worked	Strategies That Didn't Work

Create Your Own Snow!

Name: _____


Materials

- 3 cups of baking soda
- ½ cup of hair conditioner
- Large Container
- Measuring Cups

Procedure

Step 1: Pour the ingredients in a large container.

Step 2: Knead the mixture with your hands until it is completely mixed.



- take you to melt the hand? _____

e using your own hands helped you melt the _____

er?

INVESTIGATIONS & EXPERIMENTS



5 Engaging Activities for Winter Months

WINTER INVESTIGATIONS & EXPERIMENTS

- 1 Create Your Own Snow
- 2 Snowball Catapults
- 3 Melting Hands
- 4 Snowman Snot
- 5 What Will Make Hot Chocolate Packets Dissolve the Fastest?



Materials List

These activities include easy to find materials. In fact, you probably have most of items in your pantry or in your classroom!

MATERIALS LIST	
Each recipe lists enough ingredients for a group of 4-5 students.	
Activity	Materials Needed Per Group
Create Your Own Snow	<ul style="list-style-type: none">• 3 cups of baking soda• ½ cup of hair conditioner• Large container• Baggies• Measuring Cups
Snowball Catapults	<p>This activity gives you the freedom use whatever supplies you on hand</p> <ul style="list-style-type: none">• 10 Popsicle Sticks (Green And Red)• 3 Rubber Bands• Pompoms (Green And Red)• Spoons, Paint Stirrers, Mints, Kisses, Etc
Melting Hands	<p>Must complete ahead of time!</p> <p>Pour water, glitter, and small ornaments, buttons, or beads (whatever you can find) into disposable gloves and freeze overnight. You could also put salt, foil, wax paper, water, etc on the table for student to use to melt the hand. You also will want a timer</p>
Snowman Snot	<ul style="list-style-type: none">• ¼ Cup Of Water• ¼ Cup Of White Glue• ¼ Cup Of Liquid Starch• Green Food Coloring• Mixing Bowl• Spoon• Baggies• ¼ Cup Measuring Cup
What Will Make Hot Chocolate Packets Dissolve the Fastest?	<ul style="list-style-type: none">• Hot Chocolate Packets• Cups• Spoons• Hot Water• Cold Water

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CREATE YOUR OWN SNOW!



Name: _____

Create Your Own Snow!

Materials

- 3 cups of baking soda
- ½ cup of hair conditioner
- Large Container
- Measuring Cups

Procedure

Step 1: Pour the ingredients in a large container.

Step 2: Knead the mixture with your hands until it is completely mixed.

Step 3: Play with the snow!

Step 4: Separate the snow so each person in your group has an equal amount.

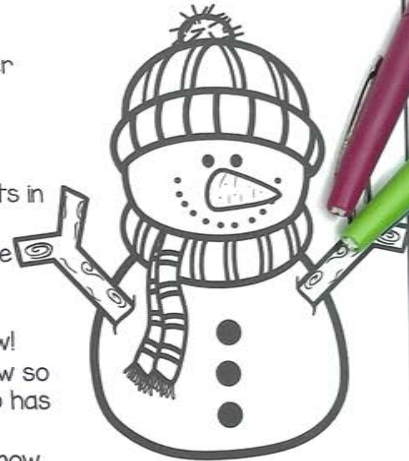
Step 5: Put the piles of snow into separate baggies.

Step 6: Take the snow home!

Observations (Remember to use your senses, but not taste):

How did the mixture change when you started to combine the ingredients?

What could you do to change this into an experiment?



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Name: _____

Snowball Catapult



Task:

Using the materials on the table, you will create a snowball catapult. Plan with your team how you will use the materials, build the catapult, test it, discuss strengths and weaknesses, then revise the catapult.

	Brainstorm	Final Catapult
Sketch		

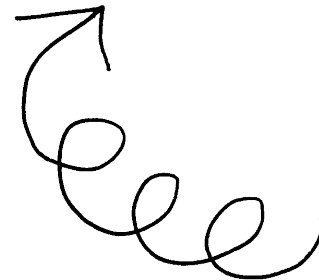
What are the strengths of the catapult you created?

What are the weaknesses of the catapult you created?

How can you revise your catapult to make it stronger?

If you were given a chance to do this again with your team, what would you do differently?

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BUILD A SNOWBALL CATAPULT!


MELTING HANDS CHALLENGE!



Name _____

Melting Hands

Task:
You have been given a frozen hand. It is your job to melt the ice without touching it with your hands. Use the stopwatch to time how long it takes you.



	Strategies That Worked	Strategies That Didn't Work
observation		

How long did it take you to melt the hand? _____
How could have using your own hands helped you melt the hand even faster?

If you were given a chance to do this again, what would you do differently?

How could you turn this into an experiment?


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Name _____

Snowman Snot

Materials

- ¼ cup of water
- ¼ cup of white glue
- ¼ cup of liquid starch
- Green Food coloring
- Mixing bowl
- Spoon
- ¼ Cup Measuring Cup



Procedure

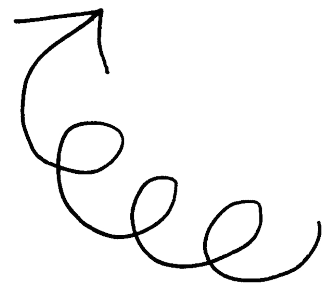
Step 1: Pour all of the glue and water in the mixing bowl.
Step 2: Stir the glue and water together.
Step 3: Add 6 drop of food coloring to the mixture.
Step 4: Stir as you pour the liquid starch into it.
Step 5: Play with the snot. As you play, it will become more stretchy and easier to hold.
Step 6: Put the piles of snot into separate baggies.
Step 7: Take the snowman's snot home!

Observations (Remember to use your senses, but not taste):

How can you connect this activity to science?

What would happen if you didn't store the snot in a baggie?



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CREATE SNOWMAN SNOT!

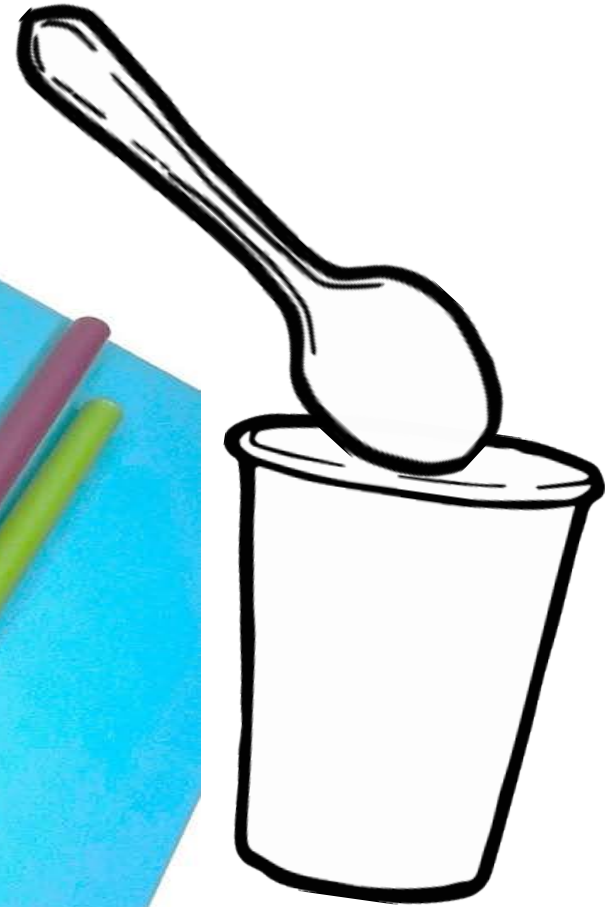
Name: _____

WHAT WILL MAKE HOT CHOCOLATE PACKETS DISSOLVE THE FASTEST?

	Temperature	Stirring
Directions	Pour hot chocolate packets in separate containers of hot water and cold water.	Pour hot chocolate packets in containers - stir one but not the other.
Observations		

Which process helps the hot chocolate packet dissolve the fastest? Why?

Which process made the hot chocolate packet dissolve the slowest? Why?



HOT CHOCOLATE EXPERIMENT!

Snowman Snot



Materials

- ¼ cup of water
- ¼ cup of white glue
- ¼ cup of liquid starch
- Green food coloring
- Mixing bowl
- Spoon
- ¼ Cup M

Procedure

- Step 1: Pour
- Step 2: St
- Step 3: A
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- stretch
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Observ

Snowball Cata



Task:

Using the materials on the table snowball catapult. Plan with your use the materials, build the cat strengths and weaknesses, the

Create Your Own Snow!

Materials

- 3 cups of baking soda
- ½ cup of hair conditioner
- Large Container
- Measuring Cups

Procedure

- Step 1: Pour the ingredients in a large container.
- Step 2: Knead the mixture with your hands until it is completely mixed.



Name

WHAT WILL MAKE HOT CHOCOLATE PACKETS DISSOLVE THE FASTEST?

Temp

Stirring

Pour h
packet

Name



Melting Hands

Task:

You have been given a frozen hand. It is your job to melt the ice without touching it with your hands. Use the stopwatch to time how long it takes you.

Strategies That Worked

Strategies That Didn't Work

- take you to melt the hand? _____
e using your own hands helped you melt the
er?

1 a chance to

Download now to see your students engaged while practicing science skills!