

63 Seasonal Science Activities!

WHICH GLUE STICK BRAND WORKS THE BEST?

Procedure:
In order for this experiment to be valid, you'll want to make sure you keep as many variables the same as possible. You'll want to use the same paper, the same amount of glue, the same places you use the glue, etc.

- Place glue in the four corners to glue two papers together. Repeat for all three brands.
- Leave in one place to dry.
- Once the papers are dry, observe which ones have stuck together the most. Record your observations below.

Materials:

- 3 Different Glue Stick Brands
- Paper

Brand #:	Brand #2:	Brand #3:
<u>Cra-z-art</u>	<u>Elmer's</u>	<u>Scholastic</u>
papers did not stick well	papers did not separate	papers separated a little

Observations

What glue stick brand will you want to use in the future?
Elmer's



Why? It is the strongest

What do you think causes the difference in glue sticks?
The ingredients

What control variables were the same?
same

During this experiment, I used glue

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Name: _____

Which liquid allows the gummy bears to grow the most?

Procedure

- Pour 1 cup of liquid into each bowl.
- Label the bowls: water, salt water, soda.
- Place the gummy bear in the bowl.
- Use the same color gummy bear.
- Observe.
- Measure the gummy bear.

Materials

- 3 gummy bears (same color)
- Three bowls
- 1 cup of water
- 1 cup of salt water
- 1 cup of soda


	Water	Salt Water	Soda
Beginning Gummy Bear Length	1.50 in	1.48 in	1.52 in
Ending Gummy Bear Length	1.75 in	1.40 in	1.49 in

Which gummy bear grew the most? Why do you think it grew more than the others? The gummy in the water

Which gummy bear grew the least? Why do you think it grew less than the others? vinegar

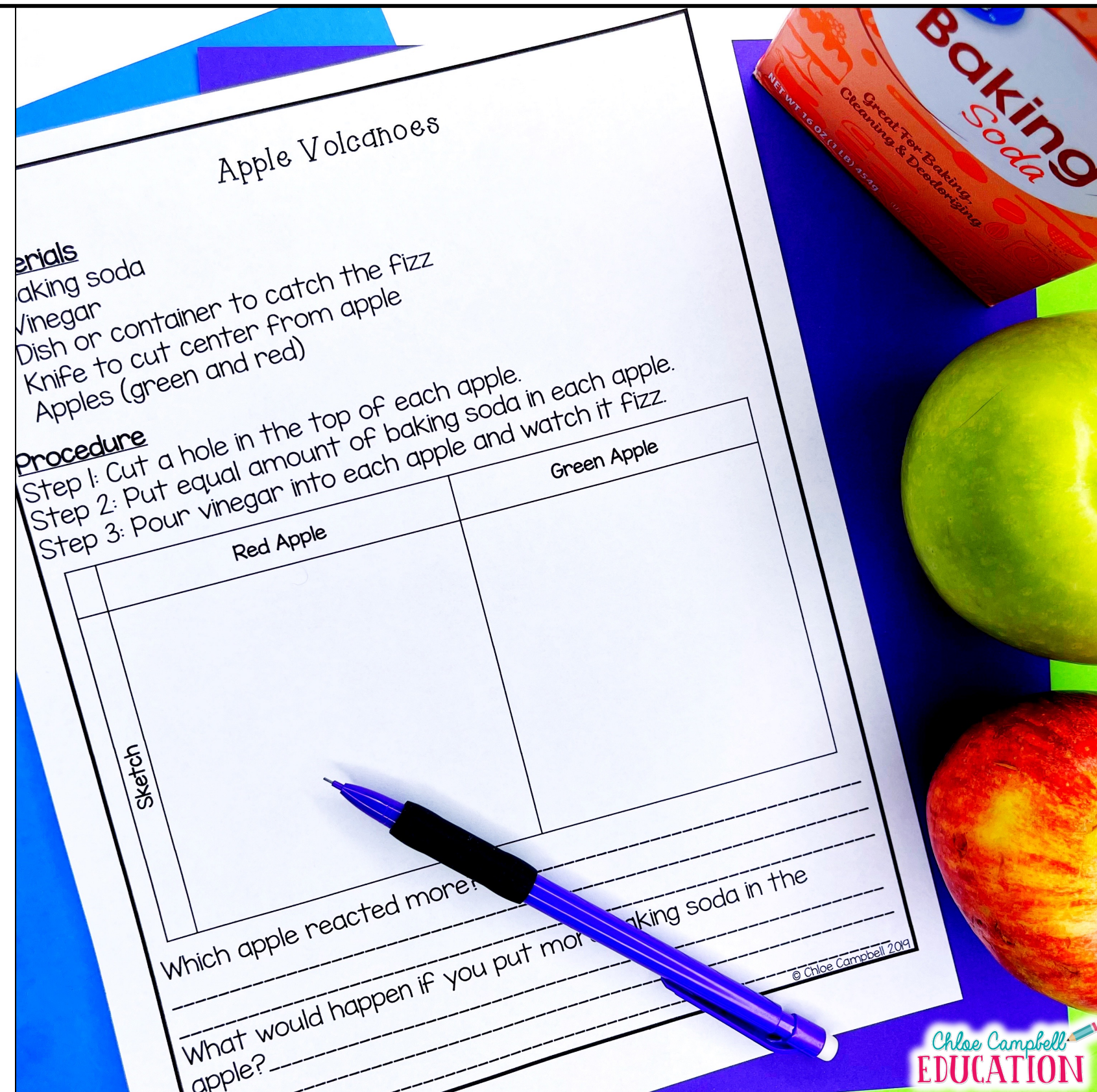
other liquids: _____

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Each resource includes a student recording sheet:

- Materials
- Procedure
- Record Observations
- Draw Conclusions



Year Round Science Activities

- Which airplane design flies the farthest distance?
- Does the amount of air change the distance the balloon travels?
 - Exploding Baggies
- Which liquid allows the gummy bears to grow the most?
 - Marshmallow Catapults
 - Apple Volcanoes
 - Ice Cream in a Bag
- Which soda reacts the most to Mentos?
- Which ramp design allows the ball to move the farthest distance?
 - What liquid cleans pennies the best?

Exploding Baggies!

Materials

- Zipper storage baggies (sandwich size)
- Vinegar
- 3-4 squares of toilet paper
- Baking Soda

Procedure

Step 1: Put 1 tablespoon of baking soda in the baggie. Fold the sides of the toilet paper to make a "time-release" packet.

Step 2: Pour ½ cup of vinegar into the baggie.

Step 3: Seal the baggie.

Step 4: Shake the baggie.

Step 5: Open the baggie and observe the reaction.

What liquid cleans pennies the best? you think that? Vinegar because it is acidic.

Name: _____

Liquid #1	Liquid #2
Vinegar	Water

Which liquid allows the gummy bears to grow the most?

Materials

- 3 gummy bears (same color)
- Three bowls
- 1 cup of water
- 1 cup of salt water
- 1 cup of soda

Procedure

Step 1: Pour 1 cup of liquid into each bowl. Label the bowls: water, salt water, soda.

Step 2: Place the gummy bear in the bowl. Use the same color gummy bear.

Step 3: Observe.

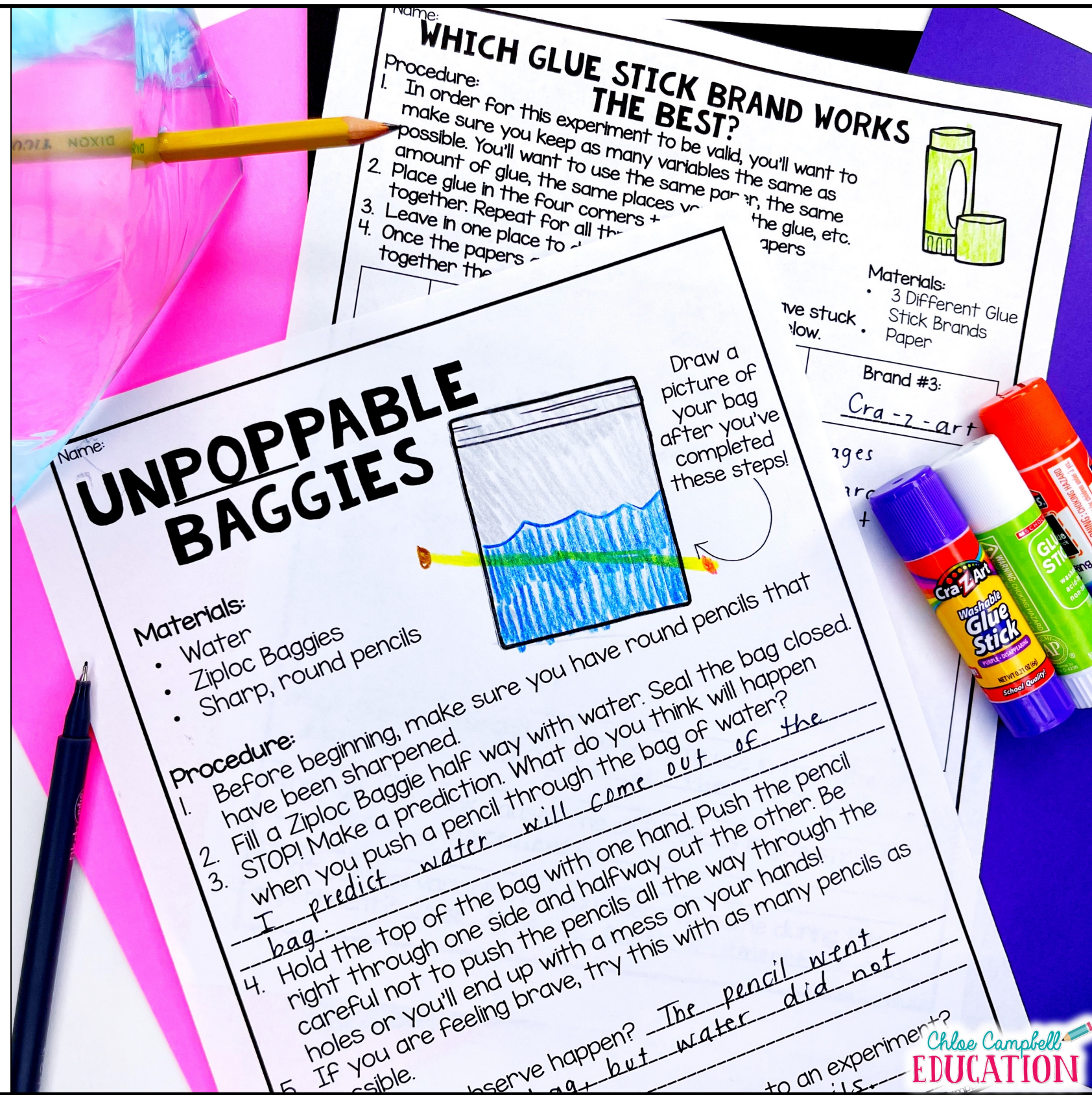
Step 4: Measure the gummy bears.

	Water	Salt Water	Soda
Beginning Gummy Bear Length	1.50 in	1.48 in	1.52 in
End Gummy Bear Length	1.75 in	1.35 in	1.45 in

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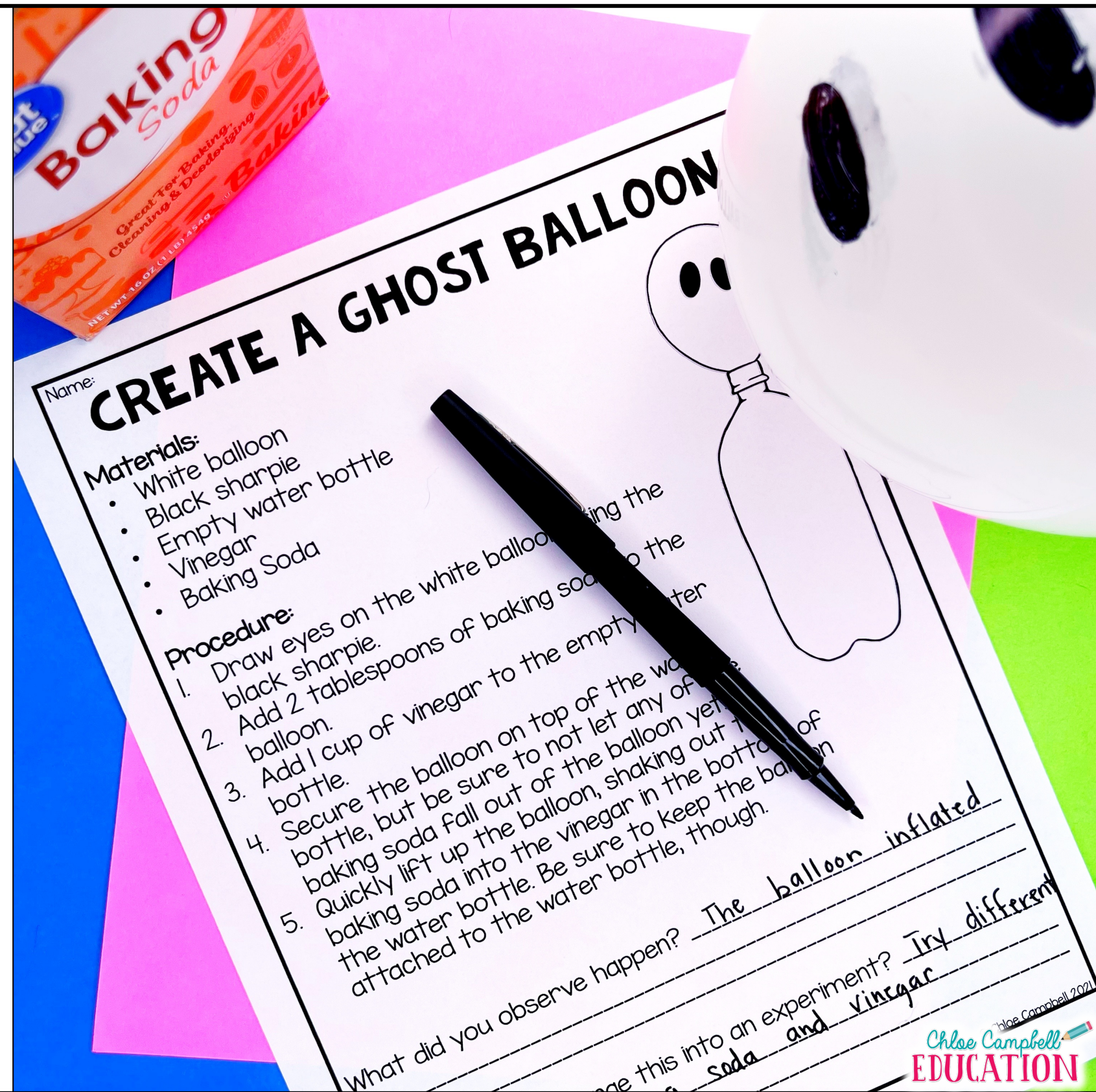
Back to School Themed Science Activities

- UnPOPPable Baggies
- Which Glue Stick Brand Works the Best?
- Which Hoop Flyer Design will Travel the Farthest Distance?
- Which Keeps Your Hands the Cleanest?
- Tallest and Strongest Cup Towers



Halloween Themed Science Activities

- Create a Ghost Balloon
- What liquid will dissolve candy corn the most?
- What water temperature will make the glow stick last the longest?
- Pumpkin Candy Towers
 - Static Electricity



Thanksgiving Themed Science Activities

- Turkey Baster Races
- Turkey Balloon Rockets
 - Cranberry Towers
- How to Make Homemade Butter
 - Create a Parade Balloon Float



Christmas Themed Science Activities

- Create Your Own Edible Ornament
- Santa's Toothpaste
- Candy Cane Strength
 - Build a Tree
- What Cookie Will Dissolve First in Milk?

Name: _____

What Cookie Will Dissolve First in Milk?

Materials

- 3 cups
- Milk
- 3 Different Types of Cookies
- Timer

Procedure

Step 1: Pour the same amount of milk in the three cups.

Step 2: Place one cookie in each cup at the same time and start the timer.

Step 3: Record your observations below.

What cookie do you think will dissolve first in the milk? Why?

	Cookie #1	Cookie #2
Observations		
Time + Dissolved		

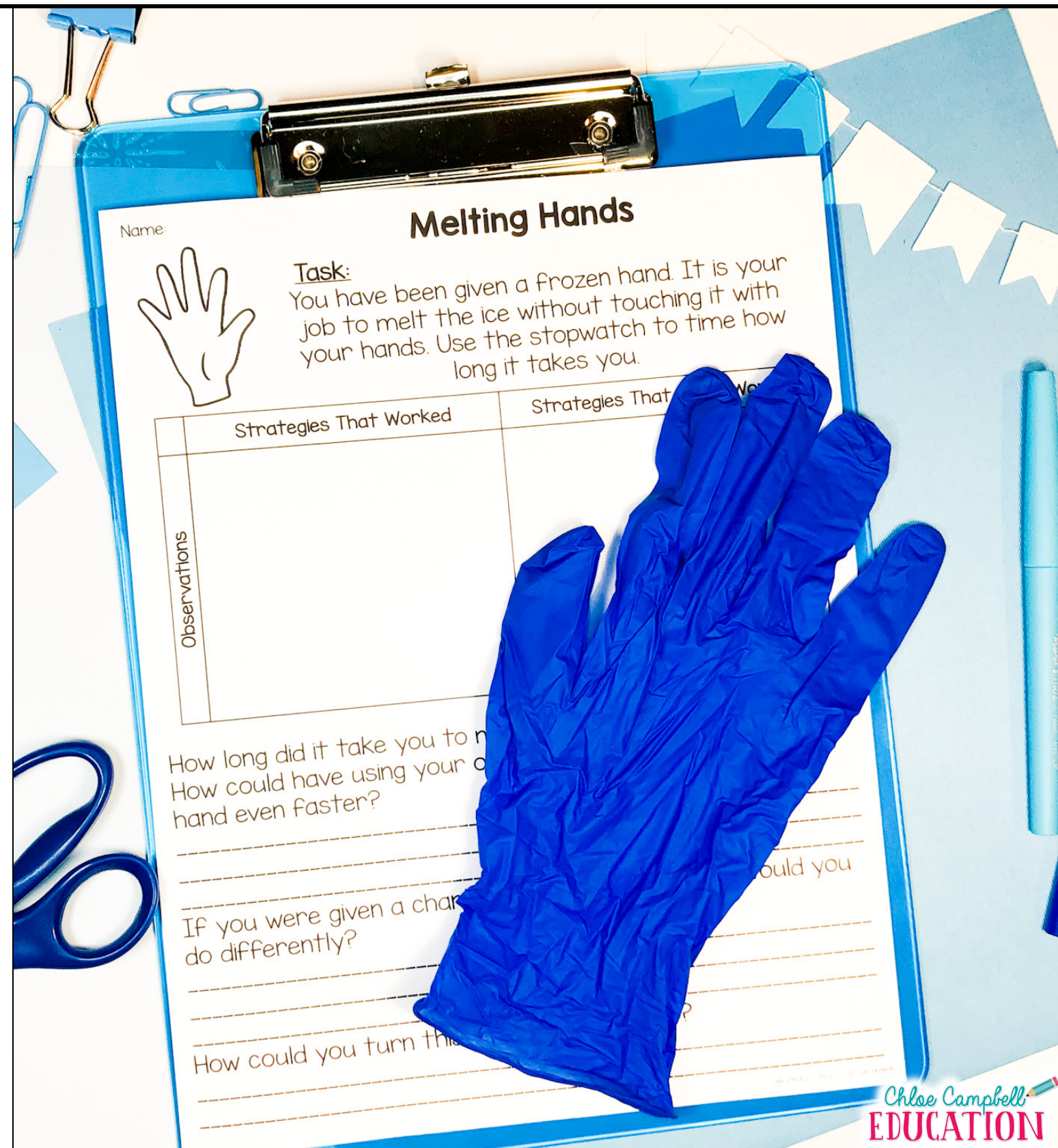
What cookie dissolved the fastest in the milk? Why do you think that happened? _____

Which cookie would you want to dip in milk? Why? _____

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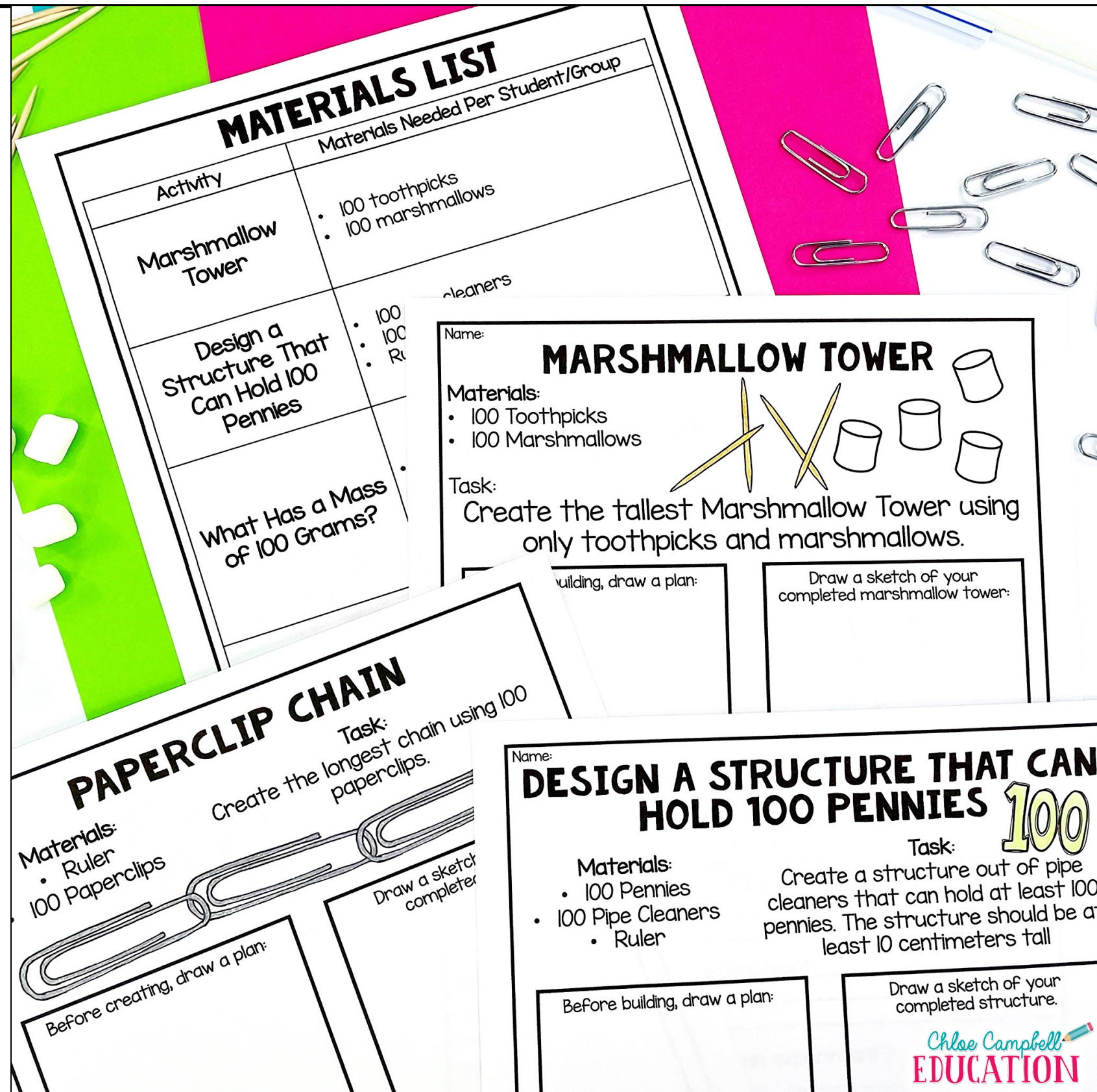
Winter Themed Science Activities

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



100th Day of School Themed STEM Activities

- Design a Structure that can Hold 100 Pennies
- What has a Mass of 100 Grams?
- Marshmallow Tower
- Straw Tower Challenge
- Paper Clip Chain



Valentine's Day Themed Science Activities

- Disappearing Hearts
- Dissolving Hearts
- Sparkly Explosion
- Secret Messages
- Heart Catapults
- Building a Heart Tower
- Valentine's Day Slime
- Crystal Hearts



St. Patrick's Day Themed Science Activities

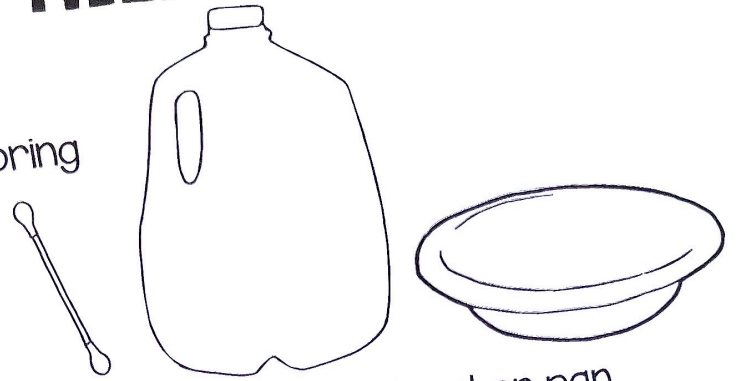
- Create Your Own Lava Lamp
- What liquid will dissolve Lucky Charm marshmallows the most?
 - St. Patrick's Day Slime
 - Rainbow Milk Investigation
- How many drops of water can you fit on the head of each coin?

Name: _____

RAINBOW MILK INVESTIGATION

Materials:

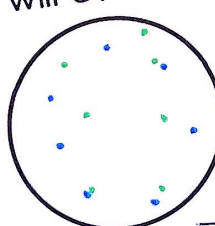
- Milk
- Liquid food coloring
- Dish soap
- Cotton swab
- Bowl or pan



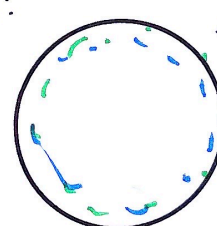
Procedure:

1. Pour a thin layer of milk into the bowl or pan.
2. Add drops of food coloring all around in the milk to create a rainbow.
3. Pick up a cotton swab and dip it in the dish soap.
4. Touch the cotton swab to the milk. Press down in one spot and hold it there to see the reaction. You may need to dip the cotton swab in the dish soap in between turns so the reaction will still occur.

Draw a sketch of your milk and food coloring drops **before** the cotton swab touched it.



Draw a sketch of your milk and food coloring drops **after** the cotton swab touched it.



What did you observe? The colors spread out.

What do you think caused the reaction?
The polar vs. nonpolar interactions

How could you change this investigation to an experiment?
I would change the liquid.

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Easter Themed Science Activities

- Jelly Bean Tower
- What liquid will dissolve marshmallow Peeps the most?
- What liquid will change an egg the most: water, vinegar, or soda?
- Dye Easter Eggs
- Magic Plates

Name: _____

MAGIC PLATES

Materials:

- Dry erase markers
- Water
- Glass or ceramic plate
- Straw
- Paper towel



Draw a sketch of what you drew on the plate.



Name: _____

DYE EASTER EGGS

Materials:

- Hard boiled eggs
- 1/3 cup of baking soda
- Water
- Liquid food coloring
- Small bowls
- Spoon

Procedure:

1. Draw an Easter egg onto a glass or ceramic plate.
2. Pour water onto the plate slowly.

Name: _____

WHAT LIQUID WILL CHANGE AN EGG THE MOST: WATER, VINEGAR, OR SODA?

Procedure:

1. Make a prediction in the first boxes below. What do you think will happen to the egg?
2. Label the cups to match the liquid that you'll put inside.
3. Place one egg in each of the three cups. Pour 3/4 cup of liquid in each cup to match the label.
4. After some time passes, use the spoon to pick up the egg and observe. Carefully place the egg back in the container and wipe off the spoon. Record time elapsed and your observations in the chart below.
5. Repeat for each cup of liquid and record your observations.

Materials:

- Water
- Vinegar
- Soda
- 3 clear cups
- 3 eggs
- Spoon
- Timer
- Paper Towels

	Water	Vinegar	Soda
Prediction			
Observations			

into brush


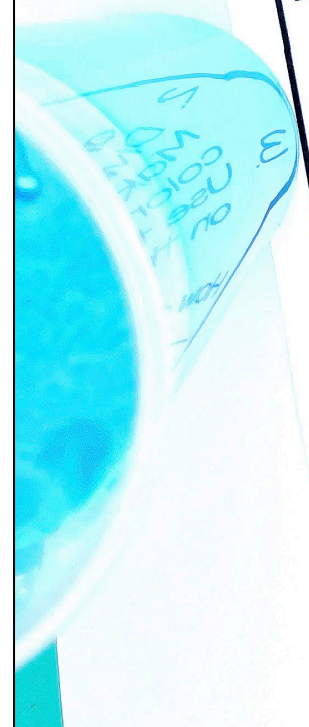
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Summer Themed Science Activities

- Rubber Band Paddle Boats
- Sunscreen Lotion vs. Sunscreen Spray
- What will melt an ice cube the fastest?
 - Balloon Towers
 - Outdoor Chalk Paint



Name: _____

OUTDOOR CHALK PAINT

Materials:

- Cornstarch
- Water
- Food Coloring
- Small Plastic Cups
- Paintbrushes
- Mixing Bowl
- Spoons

Procedure:

1. Combine 2 cups of water with 2 cups of cornstarch in a mixing bowl. Stir until the cornstarch dissolves and is smooth.
2. Divide the mixture evenly into the small plastic cups. Make different colors in each cup, using the food coloring.
3. Use the paintbrushes to paint pictures or messages on the sidewalk outside.

How did your paint change throughout the process? It became thicker and a different consistency.

How could you turn this into an experiment? Try different liquids and solids.

What challenges did you experience? It became hard to stir.

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