# STEAM CHALLENGE

# Winter Break EDITION

## Make it Snow!

Snow Recipes to make snow at home:

**Shaving Cream Blizzard**:Mix 1 lb baking soda with shaving cream for the perfect snow. Let kids knead the magic!

**Powdered Snow Play:** Combine 1 cup baking soda and water for a light, fluffy snow ready for play.

**Conditioner Snowballs:**Stir 1/2 cup white conditioner into 3 cups baking soda for snow that packs and molds well.

**Shaving Cream Avalanche:**Equal parts shaving cream and cornstarch create a foamy, moldable snow delight.

**Lotion Blizzard:**Mix equal parts cornstarch and lotion for a crumbly snow experience.

**Bonus Tips:**

- Glitter and essential oils add extra flair!
- Freeze for a chilly touch.
- Equip kids with cookie cutters for maximum snowman fun!

## Christmas Magic Milk:

*Ingredients*:

- Milk
- Liquid food coloring in green and red (gel doesn't work well)
- Dish soap
- Cotton swabs

*Instructions*:

- Pour a thin layer of milk in a shallow pan.
- Let the kids add drops of green and red food coloring all around in the milk.
- Instruct the kids to dip a cotton swab in dish soap.
- Have them press the soap-covered cotton swab into the milk, holding it in one spot for about 15 seconds.

Milk is made up of minerals, proteins and fats. When the dish soap enters the milk the fat begins to break up. The soap molecules run around and try to attach to the fat molecules in the milk. Normally this process would be invisible to you, but the food coloring helps you to see all of the movement taking place. Press another dish soap covered cotton swab into the milk and see if there are anymore fat molecules that haven't been found. If you still see movement, there were still some fat molecules on the loose!

Brenham Children's Museum

To learn more about our goal of creating a children's museum in Brenham, please visit our website.
www.brenhamchildrensmuseum.com

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## Blizzard in a Jar:

*Ingredients*:

- Water (about 1 cup)
- Baby oil
- White paint
- Glitter
- Blue food coloring (optional)
- Alka-Seltzer tablet
- Mason jar
- Stir stick

*Directions*:

- 1. Fill the jar halfway with baby oil.
- 2. In a separate bowl, mix water and a few tablespoons of white paint.
- 3. Add desired amounts of glitter and blue food coloring to the oil.
- 4. Top off the jar with the water and paint mixture, leaving some space (about three-fourths full).
- 5. Drop an Alka-Seltzer tablet into the jar.
- 6. Step back and watch the storm whirl as the Alka-Seltzer activates!

Here's the science behind this storm science experiment. Because oil is less dense than water, the water will naturally sink to the bottom of the jar. When the Alka-Seltzer is dropped into the jar, its interaction with the water creates pressure in an upward direction, and the oil pushes it back down. The back and forth pressure is part of what creates the snowstorm. The other element is the interaction between water and sodium bicarbonate in the Alka-Seltzer, which generates carbon dioxide gas. The combination of these factors creates a blizzard every time!

## Christmas Symmetry Pages:

Engage your child in artistic exploration with our Christmas symmetry pages. They not only get to draw the missing half of a provided picture but also bring it to life with their unique colors. These pages engage children to help enhance coordination as they visually analyze one side to replicate the other. They also help develop an eye for finer details, encouraging meticulousness in their artwork. This sparks creativity, ignites imagination, and adds a personal touch to the pages – perhaps creating charming Christmas decorations!

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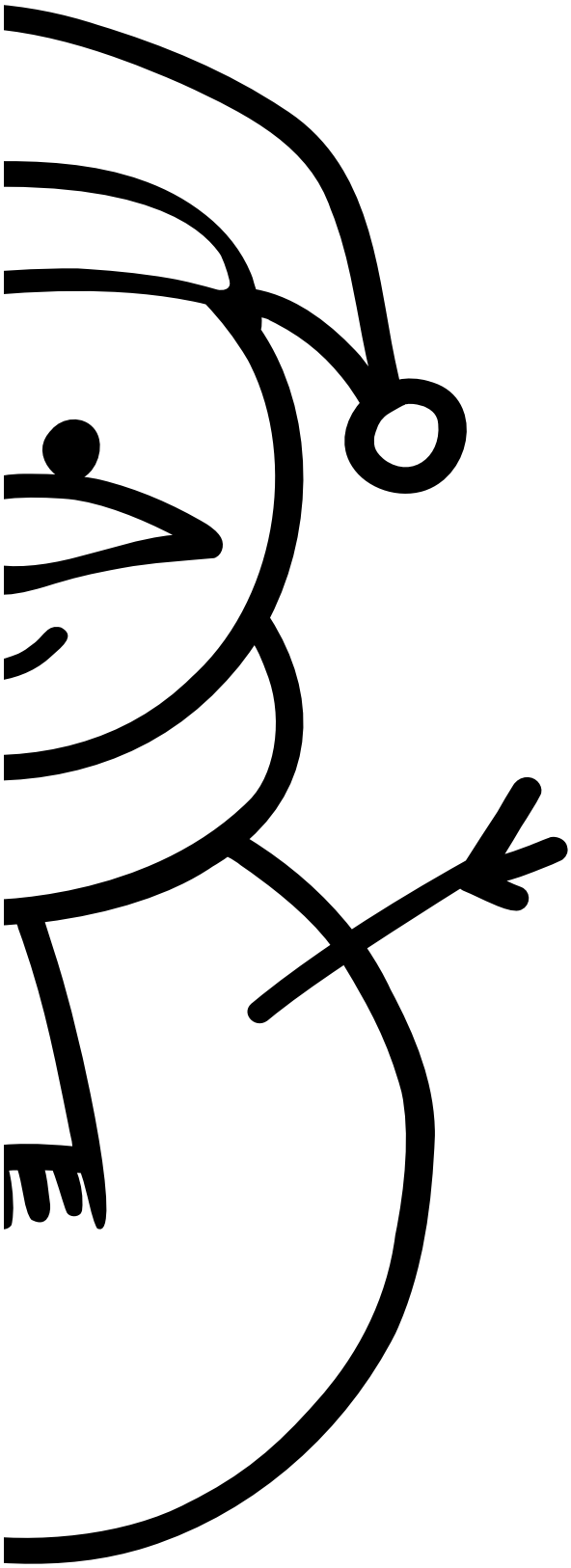

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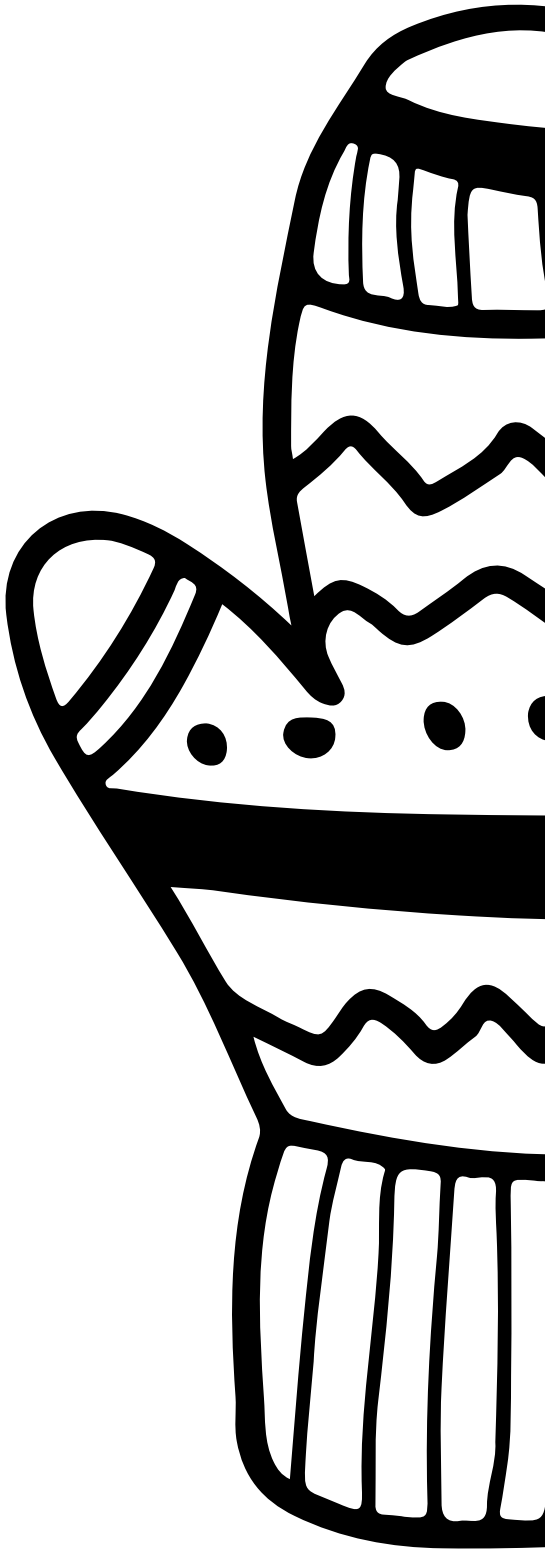

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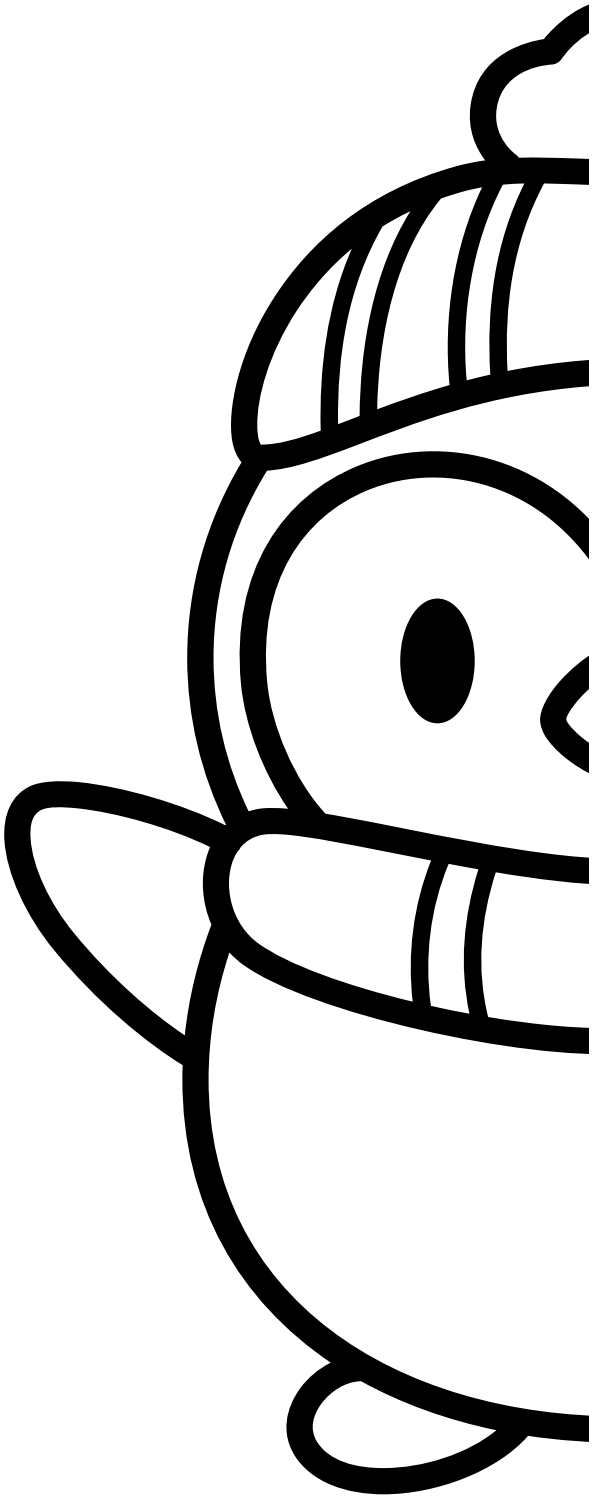

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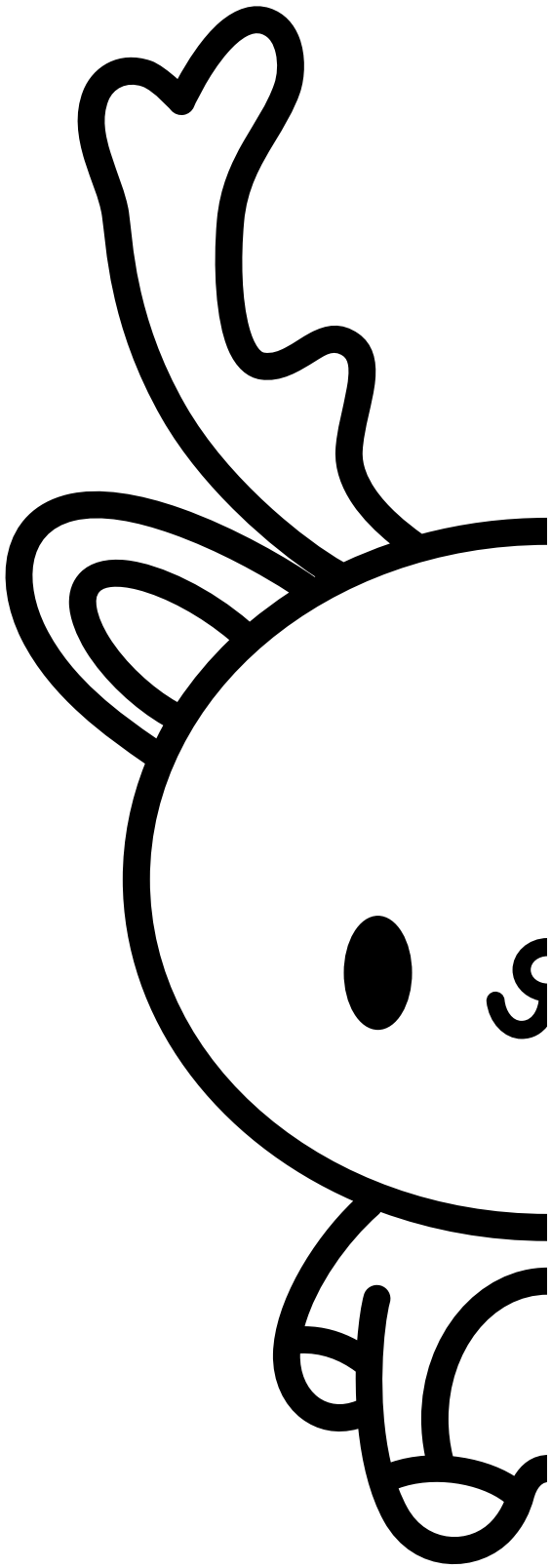

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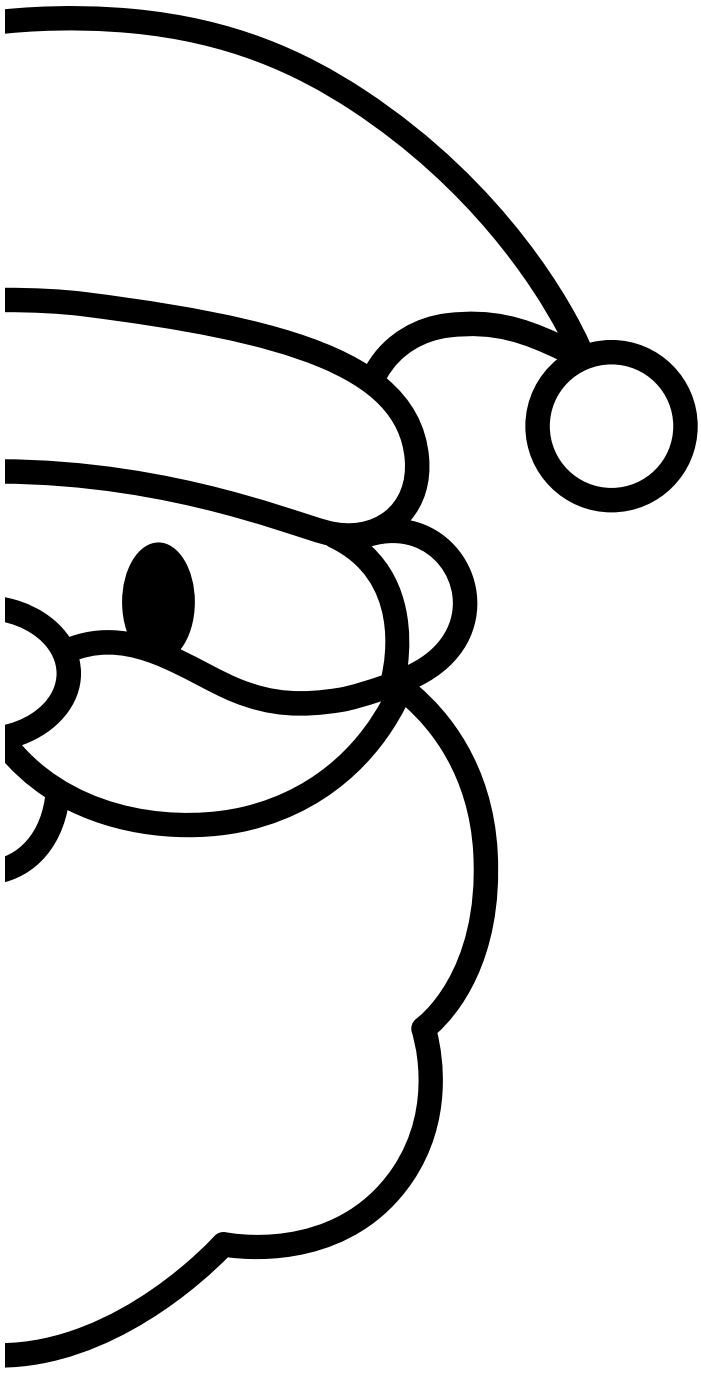

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