



# At Christmas

## STEAM



- Let It Sow
- Bowling Fun
- Candy Snowman



# At Christmas

## STEAM

### Let It Sow











# Let It Snow



## WHAT YOU NEED

- **1 plastic cup**   
A clear cup you can see through.
- **Template 1**   
A picture of a Christmas tree.
- **Template 2**   
A picture of snow.
- **1 marker**   
For tracing the big circle.
- **scissors**   
For cutting the templates.
- **1 hole punch**   
For making tiny paper snow pieces.

# Let It Snow

1

## WHAT YOU NEED

- small paper pieces



Paper snow for the snowstorm.

- 1 straw



For blowing air into the cup.

- 1 hot glue gun



For sealing and making holes.  
(Use with adults' help.)

- glue sticks



To use with the glue gun.

TEMPLATE 1



TEMPLATE 2



# How to do

3

## 1. TRACE THE BIG CIRCLE

- Turn the cup upside down. Place the opening on Template 2.
- Use a marker to trace along the opening and cut out a circle.

## 2. PREPARE THE BACKGROUND

- Cut out the Christmas tree on Template 1 with scissors.
- Put the tree inside the cup as close to the bottom as possible.
- This will be your decoration.

## 3. ADD SNOW

- Use a hole punch to make small paper pieces.
- Put the paper pieces inside the cup.

## 4. SEAL THE BIG CIRCLE

- Place the circle over the opening of the cup to form the base.
- Use a hot glue gun to seal the opening tightly.





# How to do

3

## 5. ADD THE STRAW

- Use the hot glue gun to poke a hole on the side of the cup, close to the base.
- Insert a straw into the hole and seal it with hot glue.



## 6. MAKE THE AIR HOLE

- Poke a small hole on the top side of the cup (near the base).



## 7. MAKE THE SNOWSTORM

- Blow into the straw and watch the tiny paper snow swirl around like a magical snowstorm!



# Let It Snow



## How It All Works

- When you blow into the straw, the air inside the cup moves fast.
- Fast air makes the tiny paper pieces lift and swirl.
- This is called <sup>re</sup>air pressure – moving air can push things!



# Let It Snow



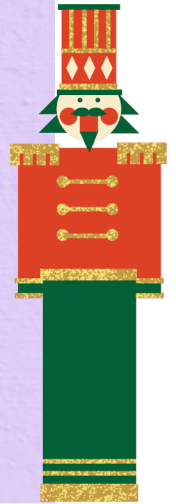
## The Magical Paper Snowstorm in a Cup

Name: \_\_\_\_\_ Date: \_\_\_\_\_

- Science - Air Pressure

Q1. What happens when you blow into the straw?

- ☐ The paper stays still
- ☐ The paper snow flies and swirls
- ☐ The cup gets bigger



- Technology - Tools

Q2. Which tool helps you make tiny paper snow pieces?

- ☐ scissors
- ☐ a hole punch
- ☐ a marker



- Engineering - Building

Q3. The cup, holes, and straw work together like a \_\_\_\_\_.

- ☐ story
- ☐ machine
- ☐ puzzle piece





# Let It Snow



## The Magical Paper Snowstorm in a Cup

Name: \_\_\_\_\_ Date: \_\_\_\_\_



- **Art - Creativity**

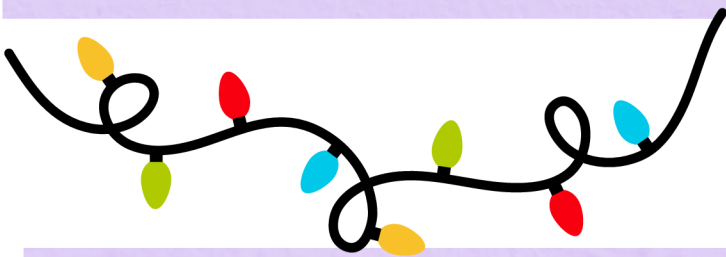
Q4. What part can you decorate to make your craft look beautiful?

- ☐ The table
- ☐ The background picture
- ☐ The hot glue gun

- **Math - Shapes**

Q5. What shape do you trace to make the base?

- ☐ a square
- ☐ a triangle
- ☐ a circle



- **Short Answer**

Q6. Why does the paper snow pieces move when you blow into the straw?

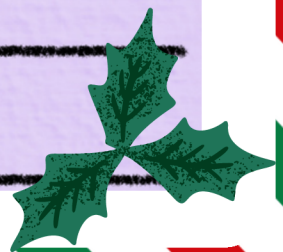
Write one simple sentence:

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# Christmas STEAM

- Bowling Fun

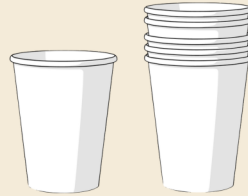


# Bowling Game



## What You Need

- 10 empty paper cups
- 1 soft ball
- Tape (to make a line on the floor)
- Stickers, paper, or markers to decorate the paper cups



## What to Do

1. Decorate the paper cups like Christmas trees or snowmen.  
(Have students draw a face for their snowman.)
2. Stack up the bottles on the floor in a triangle (4-3-2-1).
3. Make a line with tape to show where to stand.

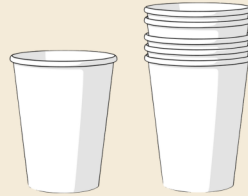


# Bowling Game



## What You Need

- 10 empty paper cups
- 1 soft ball
- Tape (to make a line on the floor)
- Stickers, paper, or markers to decorate the paper cups



## What to Do

4. Roll the ball and try to knock down the cups.
5. Count how many cups fall.
6. Take turns with the students.
7. The person who knocks down the most cups wins!



# Bowling Game



## Words to Learn

- roll – to make a ball move on the floor
- knock down – to make something fall
- line – a mark on the floor
- turn – when it's your time to play
- score – how many you knock down



## Say It in English

- “It's my turn!”
- “I rolled the ball!”
- “I knocked down 5 bottles!”
- “Good job!”



## The Science Behind the Fun

### Science & Math in Bowling!

- When you roll the ball, force causes motion (Science).
- The harder you roll, the faster it moves!
- You can count your score and compare the numbers (Math).
- When the bottles fall, it shows energy and motion in action!





# Christmas STEAM



STEAM Challenge

- Candy Snowman



# CANDY SNOWMAN

1



## What You Need:

- 3 large marshmallows
- 1 pretzel stick
- 2 mini Oreos
- 1 round cookie
- 1 orange jelly bean
- 2 black M&Ms
- 3 Gumdrops



# CANDY SNOWMAN

1



## What to Do

1. Check all the shapes and colors on the plate.
2. Think: What can you build? (A snowman? A reindeer? A Christmas tree?)
3. Use the treats to build your idea.
4. Pretzels = arms or legs
5. Marshmallows = body or snow
6. Oreos = buttons or base
7. Gumdrops & M&Ms = decorations
8. Be careful not to eat it all! 😊
9. Show your creation to your friends and explain what you made in English.

# CANDY SNOWMAN



## The Science Behind the Fun

This is an engineering challenge!

- Use design thinking to plan and build.
- Test your idea, see what works, and fix what doesn't.
- It's also math; you use shapes, balance, and counting!

