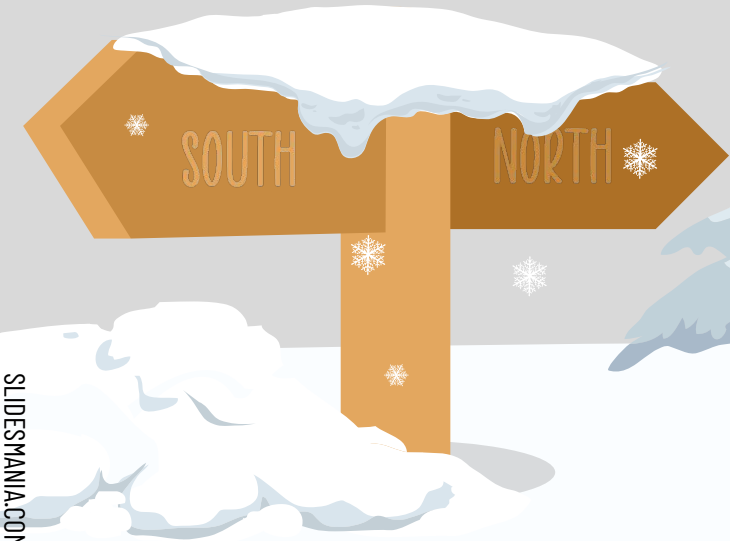


# Festive Winter STEAM Challenge Cards



Make a copy of these  
challenge cards

# Create an Igloo

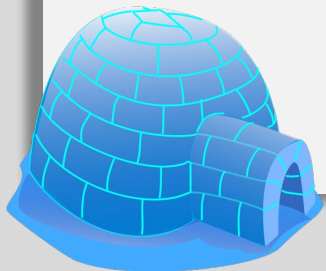


01

**Task:** Design and build an igloo with consumable materials that can hold/protect a figurine. Igloos are typically created in dome shapes. Can you create an igloo in a different shape?

**Materials:** Any consumable materials- paper, scissors, blocks, pipe cleaners, sticks, glue, tape, cardboard, etc.

**Directions:** Sketch a plan for your igloo, build your igloo and make adjustments as needed, share with your peers, and test to determine if the igloo is a suitable protective environment for the figurine!





# Robot Sledding

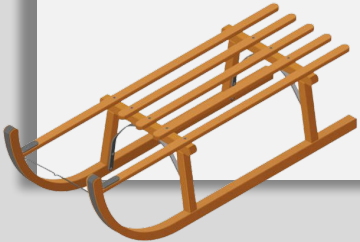


# 02

**Task:** Send a STEAM robot on a sledding adventure. Create a sled that will support your robot and move it from one point to another.

**Materials:** Robot of your choice, consumable materials to design the sled, ramp to test the sled. Consider if you will be choosing a robot with or without wheels!

**Directions:** Determine the robot you will use, design and build your sled, test out the speed and success of your sled, make changes as needed, and share with peers.



# Build a Snowman



03

**Task:** Determine how tall you can build a snowman tower.

**Materials:** Styrofoam cups, tape, measuring tape

**Directions:** Create a plan for building the tallest snowman, stack the provided cups to create the tallest tower, test and evaluate as needed, measure the height of your tower.



# Penguin Iceberg Float



# 04

**Task:** Design and build an “iceberg” for your penguin to float on.

**Materials:** Straws, tape, popsicle sticks, tape, penguin prop, water to test

**Directions:** Create a plan for your iceberg, build your iceberg using consumable materials, test whether or not the iceberg can hold your penguin while floating on water, make adjustments as needed, and share with peers.





# Snowflake Creation



# 05

**Task:** Create a snowflake that is as unique as you are!

**Materials:** Any consumable materials and/or STEM products. For example; cotton swabs, paper, Lego blocks, etc.

**Directions:** This is a really open-ended activity that students can put their own unique twist on. Add in STEAM products or stick with consumable materials to create a unique snowflake.



# Create Your Own



# 06

Task:

Materials:

Directions:

