

STEM CHALLENGE #1

In this challenge, children will use raw materials to build a pine tree.



MATERIALS NEEDED:

pipe cleaners, felt, and clothespins

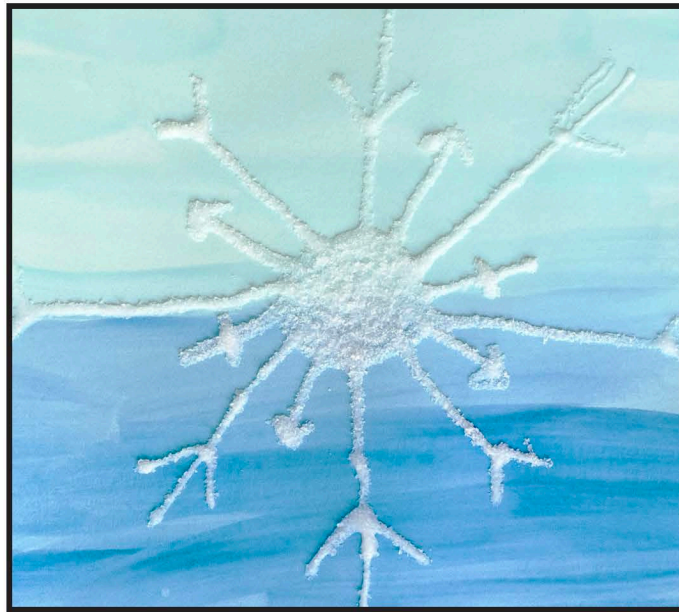
DIRECTIONS:

Provide your students with pieces of brown and green felt, a variety of pipe cleaners, and clothespins to build a pine tree. This STEM activity can be completed independently, or with a partner. You can challenge your students to create a two-dimensional or three-dimensional tree.

Before beginning their tree, have each student close their eyes and visualize what a pine tree looks like. Then, have students draw a pine tree sketch on their Brainstorm Your Pine Tree worksheet.

STEAM CHALLENGE #4

In this challenge, children will use symmetry to design a snowflake.



MATERIALS NEEDED:

white watercolor paper or construction paper, watercolor paint, paint brushes, liquid glue, salt

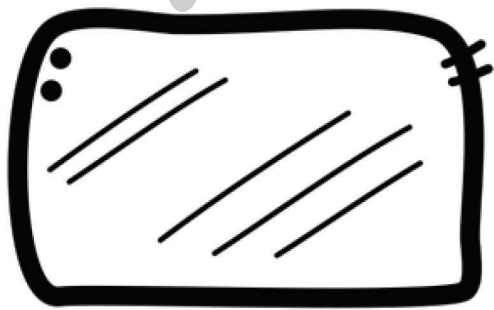
DIRECTIONS:

Explain to your students that they are going to use symmetry to design their snowflakes. Show the What is Symmetry poster. Discuss with your students how each snowflake looks the same on opposite sides of the dashed line. This is symmetry!

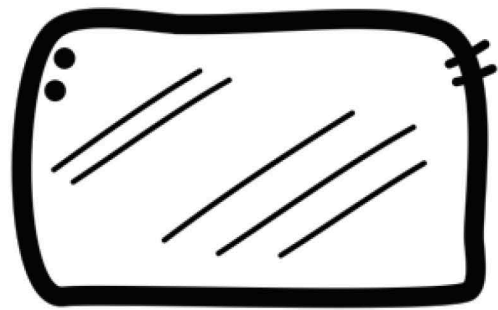
Give each student a Design Your Snowflake worksheet.

Make a Hypothesis

Let's make a guess! Will the ice melt faster or slower when you add salt onto the ice cube?
Circle your answer.



faster



slower

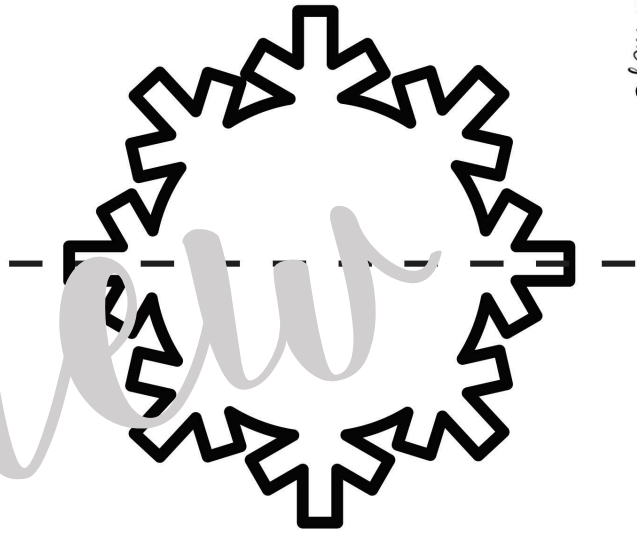
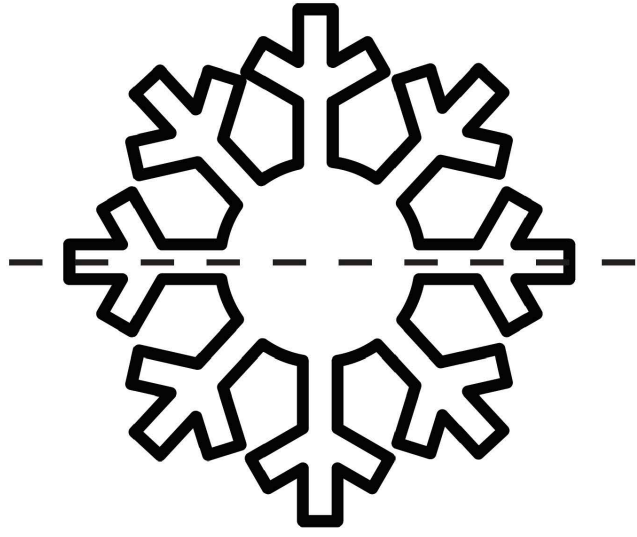
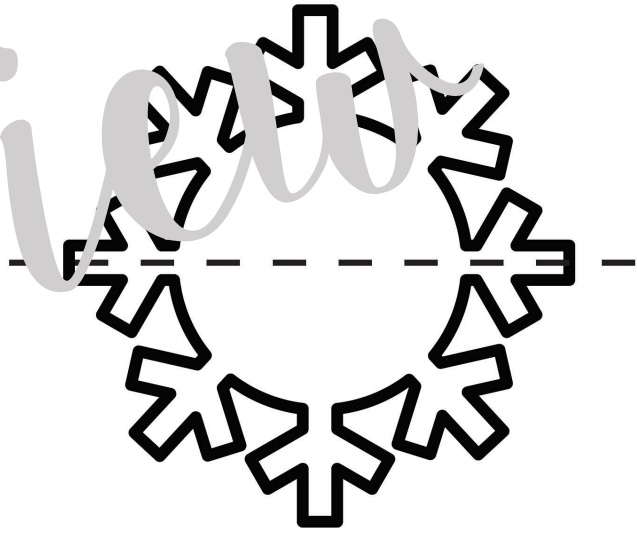
Was your hypothesis correct?

yes

no

WHAT IS SYMMETRY?

A shape that looks exactly the same on both sides.



Winter STEM Challenges

Hello parents,

We need your help! We are collecting materials for our Winter STEM Challenges. These materials will be used in the classroom, and will not be returned home.



We are in need of the following materials:

Pipe Cleaners

Craft Sticks

Salt

Marshmallows

Toothpicks

Watercolor Paint

White Watercolor Paper

Please send materials by _____

My STEM Reflection

preview

preview