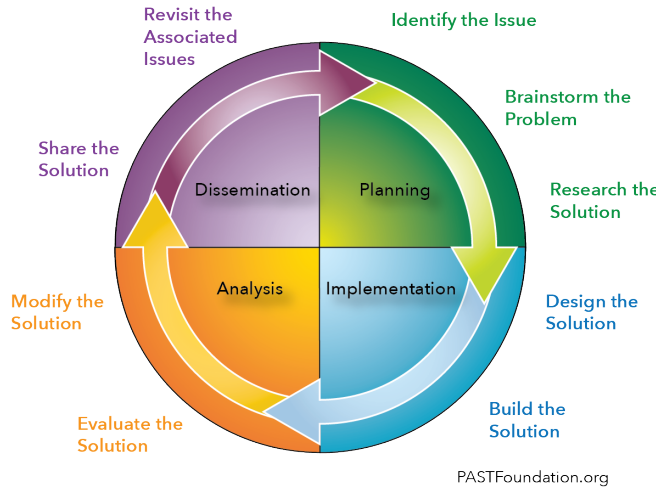


How to Stop a Snowman From Melting



Problem Scenario: After the first snowfall you build a snowman, but when you come out the next morning it has melted. This makes you wonder is there a way to keep your snowman from melting?

Challenge: Find a way to keep a snowman made from ice, snow or a frozen water bottle from melting.

Materials:

Ice or snow	Water Bottle	Aluminum Foil
Towel(s)	Cotton Balls	Toothpicks
Tape	Plastic or paper plates	

Brainstorm: Work together to answer the following questions:

1. What is snow? At what temperature does it start to snow?
2. What causes snow and/or ice to melt?
3. What are the three basic states of matter?
4. What is a control when doing a science experiment?

Design:

Using the materials provided design 2 different ways to keep your snowman from melting.

Draw and label your designs below!

Design 1:

Design 2:

Build:

Build your snowmen! These can be made from stacking ice, using snow or a frozen water bottle.

After the snowmen are built use yours designs to protect them from melting!

Test:

Once the designs are built it is time to test!

Take 3 plates and place them where the testing will be done.

Place your snowmen on 2 of the plates and add one more snowman without any protection on the 3rd plate. This will be your control snowman.

Leave the snowman for a set amount of time. (ex: 2-3 hours)

After the set amount of time is up go and check on your snowman!

Which snowman melted the most? _____

Which snowman melted the least? _____

Modify: Try some modification the next time!

Use new materials that you choose and try to create a new design to protect your snowman from melting!

Put your snowmen in a new location! Maybe outside in a shaded place or inside in a cooler.

Share:

Share your experiment on Social Media!

Tag us on Facebook, Twitter or Instagram @pastfoundation

Use the hashtag #ThisIsPAST or #DesignThinking