Ice Melting Experiment

Materials:

- 3 clear cups or mason jars
- Ice cubes to fill each cup/jar
- Observation sheet (can be found below - optional)

Instructions:

1. Fill three clear cups with ice.
2. Place the first cup in direct sunlight, place the second cup in a shady spot, and place the third cup in the refrigerator.
3. Make your predictions. For this step you can use the observation sheet, a blank piece of paper, or tell your predictions to the person helping you. Explain why you are making your predictions.
4. Check on your three cups every 15 minutes and discuss with the person you are working with what you observe.
5. After 30 minutes make your final observations. For this step you can use the observation sheet, a blank piece of paper, or share with the person helping you. Explain what you think happened.

Will it change?

by : https://www.mrsthompsonstreasures.com/product/will-it-melt-science-activity/

Materials:

- Muffin tin
- Items to place in each of the spots in the muffin tin.
    - Some of these items should change in the sun and others should stay the same. You can use the observation sheet below to see what items you could use.
- Observation sheet (optional)

Instructions:

1. Place and item in each of the spots in the muffin tin.
2. Make a prediction about if the item will change or stay the same when placed in the sun. For this step you can use the observation sheet provided, a blank piece of paper, or tell your predictions to the person helping you. Explain why you are making your predictions.
3. Place the muffin tin in direct sunlight. Check in on your items every 15 to 20 minutes. During check-ins please be careful as the muffin tin may be hot to touch.
4. After one hour make your final observations about what happened. For this step you can use the observation sheet, a blank piece of paper, or share with the person helping you. Explain what you think happened.

Sun Protection Activity

By: Forgetful Momma
http://forgetfulmomma.com/2016/05/23/sun-protection-activity/

Materials:

- Construction paper
    a. Dark colours will work best.
- sunscreen

Instructions:

1. Apply the sunscreen to the palm of one hand.
2. Before the sunscreen dries, press the sunscreen coated hand firmly onto the paper.
3. Set the paper in direct sunlight.
4. Make a prediction about what you think will happen and why.
5. After an hour take a look at the construction paper and make observations. Let the paper sit in the sun for another hour or more before making your final observations.
6. Make your final observations. What happened? Was your prediction right.

To learn more about why you should wear sunscreen and how sunscreen works, watch Why Should You Wear Sunscreen by SciShow Kids.

Why Should You Wear Sunscreen: http://www.viewpure.com/ZwpbuCJr63E?start=0&end=0

The Power of the Sun

By SciShow Kids

Watch: The Power of Sunlight! By SciShow Kids
http://www.viewpure.com/0Qmgdz9E47s?start=0&end=0

Materials:

- 3 clan tin cans (tops and bottoms cut off)
- Tape
- Wire (paperclip will do)
- Thumbtacks
- 2 book (same size)
- Paper square (15cmx15cm)
    - Paper
    - Scissors

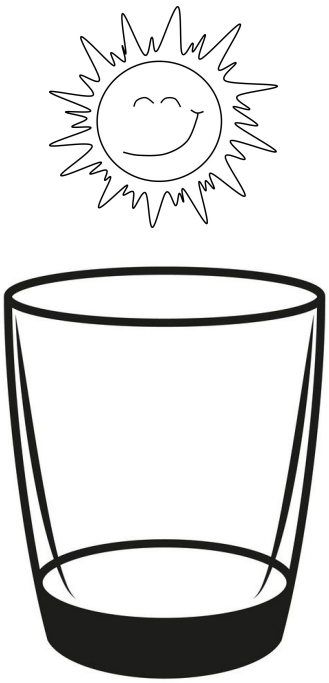
Instructions (taken directly from video):

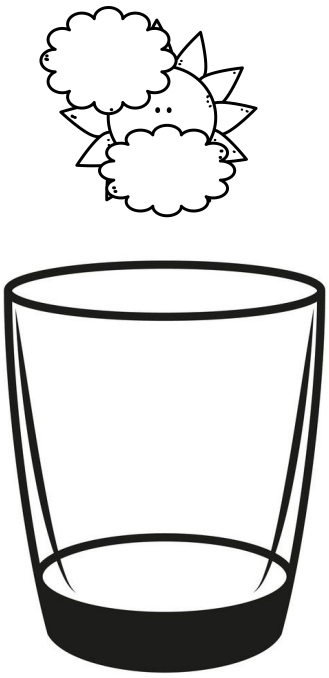
1. Stack up the cans and tape them together really well.
2. Bend the paperclip into an arch shape, and tape it to the top of the tower of cans.
3. Get a grownup to help you attach the thumbtack to the top of the paper clip shape with tape.
4. Fold the pinwheel. (you may want to watch the video again for this set)
    a. Grab your square paper and have a grownup help you cut diagonally from the corners. Don't cut all the way through the paper, though! Once all the corners are cut, fold them and tape them together in the center.
5. Get your grownup to stick the pinwheel onto the pointy end of the tack.
6. Put the can tower on top of the books, so there's a gap at the bottom, and set the whole thing near a window, where there's direct sunlight — so the sun is shining straight through the window.
7. Now we wait!

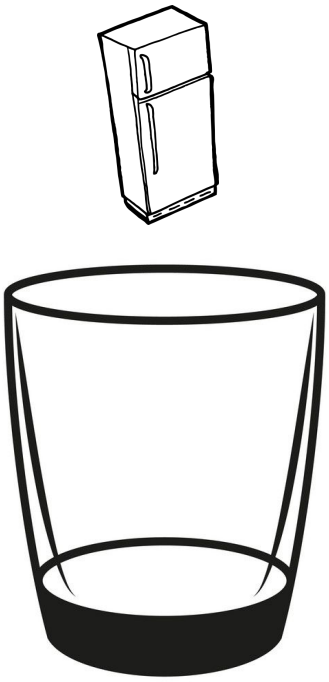
Ice Melting Experiment

Before completing the experiment fill in the top three glasses with your predictions on what will happen to the ice in each scenario. After completing the experiment, fill in the bottom three glasses showing what happened. Where your predictions correct? What happened?

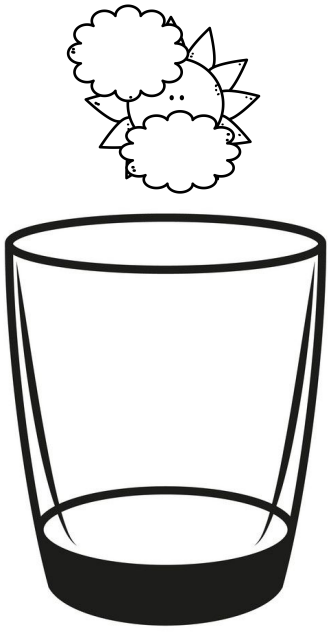
Predictions

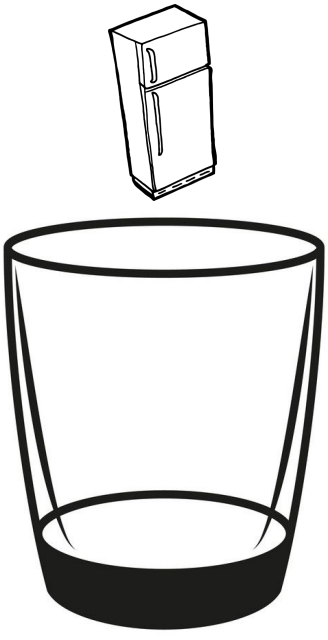






Final Observations





Name _____

Will it Change?

Do you think these objects will change in the sun (melt or get gooey)? Circle yes or no for each object. After the experiment, circle what really happened.

Object	Prediction: Will it change?	Experiment: Did it change?
crayon (no paper) 	yes no	yes no
coin 	yes no	yes no
chocolate 	yes no	yes no
paperclip 	yes no	yes no
ice cube 	yes no	yes no
rock 	yes no	yes no
candle 	yes no	yes no
leaf 	yes no	yes no
marble 	yes no	yes no
peanut butter 	yes no	yes no
marshmallow 	yes no	yes no
drop of water 	yes no	yes no