





Temperature Scavenger Hunt

Big Idea: There are many things that can make a place hotter or colder, like the sun, a fan, a refrigerator, a heater, or the temperature of nearby air or water.

Predict: Think about different places in your home. List three things that could make them hotter and three things that could make them colder.

	 Things that might make something hotter	 Things that might make something colder
1		
2		
3		

In your home, what place do you think is:

the warmest? _____ the coldest? _____

Materials:

- 5 cups of the same size and material (for example, 5 paper cups)
- A thermometer
- Water
- A pen or pencil to record your results

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For more *Cyberchase* adventures with temperature, watch "Housewarming Party" on pbskids.org/cyberchase.

Funding for *Cyberchase* is provided by The JPB Foundation, the Heising-Simons Foundation and Ernst &Young LLP. Additional funding is provided by Lynne and Marc Benioff, the Tiger Baron Foundation, Shailaja and Umesh Nagarkatte and Ellen Marcus.

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AT-HOME ACTIVITY

Temperature Scavenger Hunt

Investigate:

1. Label each cup with a letter from A-E, giving each cup a different letter.
2. Pour water in each cup so that they are about half full.
3. Use your thermometer to measure the starting temperature of the water in each cup. Record the temperature on the "Results" page.
4. Place each cup of water in a different location around your home.
5. Leave your cups in their locations for about 3 hours.

TIPS:

- Look for very warm and very cool places around your home.
- Don't put the cup anywhere where it will melt and don't touch anything too hot or too cold with your hands!
- Try to find places that will stay the same temperature for a few hours.

Record:

1. After about 3 hours, go back to your cups.
2. Use a thermometer to measure the temperature of the water in each cup.
3. Record your results on the "Results" page.

Reflect:

1. In what location did the water become the hottest? In what location did the water become the coolest? What things about the location of each cup made it warm or cold?
2. How much hotter was your highest temperature from the starting temperature of the water in that cup? How do you know? degrees
3. How much cooler was your coldest temperature from the starting temperature in that cup? How do you know? degrees
4. How do you keep yourself cool in the summer? How do you stay warm in the winter?

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RESULTS

1. Record your results in the chart below.

Cup #	Location	Starting Temperature	Ending Temperature	Difference Between Starting and Ending Temperatures
A				
B				
C				
D				
E				



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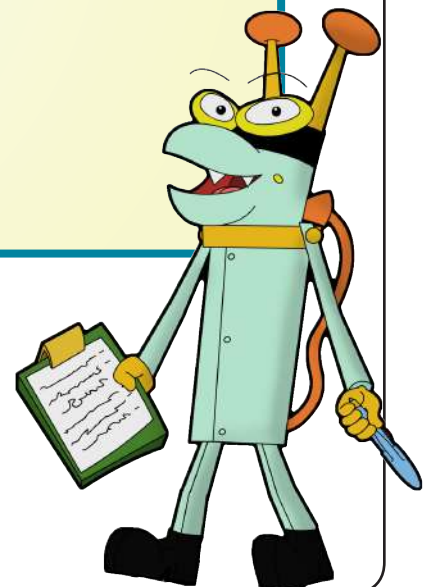
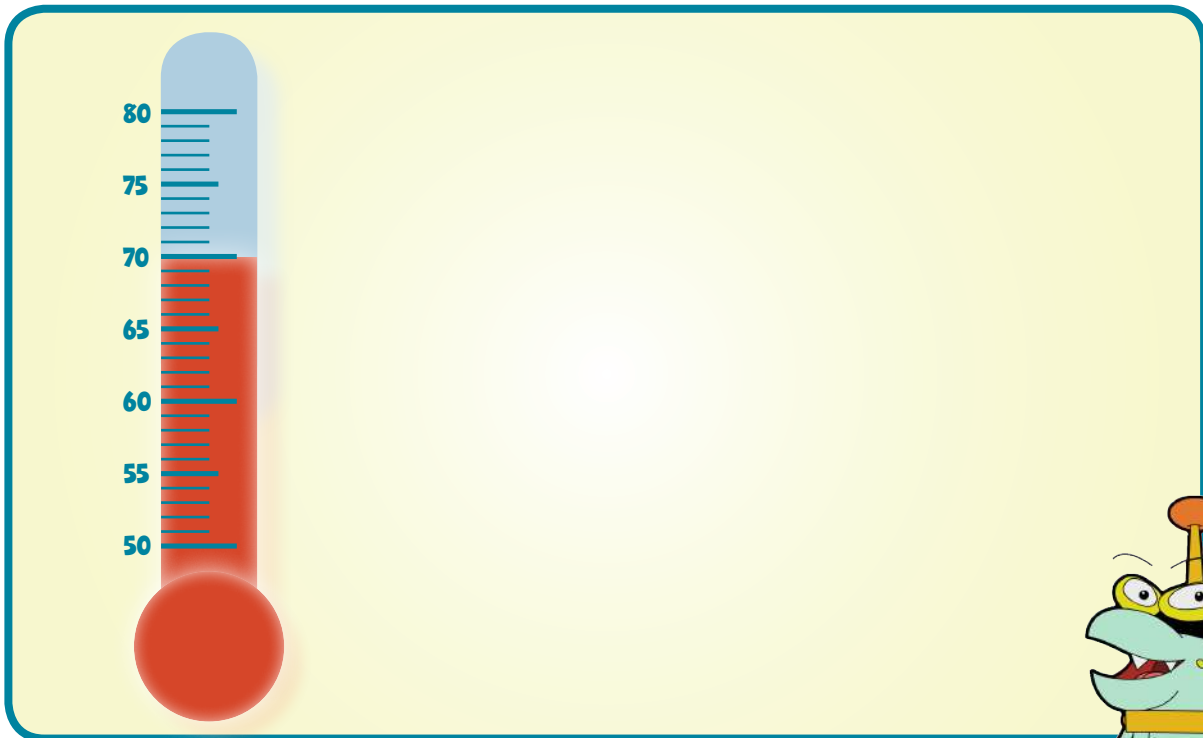


AT-HOME ACTIVITY

Temperature Scavenger Hunt RESULTS

2. Put each of your cups on the thermometer below by writing the cup letter near the ending temperature for each cup. (For example, if your ending temperature for cup A was 80 degrees, write "A" close to the 80 degree mark. If the ending temperature for cup B was 70 degrees, write "B" by the 70 degree mark.)

Observations: Describe with words or draw anything that you think heated or cooled the water in each location.



3. Look at your findings above. Subtract your coldest temperature from your warmest temperature. What is the difference between the two?

- Warmest Ending Temperature: degrees
- Coldest Ending Temperature: $-\text{ degrees$
- Difference: degrees

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