Hands On!

Explore Cooling

From *HMH Into Science®*





Cooling can cause matter to **freeze**, or change from a liquid to a solid. Changes to matter that can be undone are **reversible**. Changes that cannot be undone are **irreversible**.

Ask a question about how cooling may change matter.

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Materials Checklist

- ☐ an ice cube
- ☐ a cup of water
- ☐ a wooden block
- ☐ a flower



Step 1

Observe the items. What do you think will happen to them when they are put in a freezer?

Step 2

Put all the items in a freezer overnight. Take them out the next day.

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Step 3

What effect does freezing have on each item?



ice cube	
water	
block	
flower	

Step 4

Can the flower and the water go back to what they were? How could you find out? Talk with a partner about whether the changes are reversible or irreversible.

Why is it important to follow the steps of your investigation in order?

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Make a **claim** about how cooling affects different objects.

What is your **evidence**? Talk with a partner about your **reasoning**.



Making Sense

I explored

How does this help me explain how icicles and bread change in different ways?

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