

 **FUN**damental
Experiments 

Water



by Ellen Lawrence

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Consultants:

Suzy Gazlay, MA

Recipient, Presidential Award for Excellence in Science Teaching

Kimberly Brenneman, PhD

National Institute for Early Education Research, Rutgers University, New Brunswick, New Jersey

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Let's Investigate Water

You drink it, bathe in it, and probably like to swim and splash in it. You see and use water every day, but now it's time to look at this amazing **liquid** like a scientist. Inside this book are lots of fun experiments and cool facts about water. So grab a notebook, and let's start investigating!



Check It Out!

Like all liquids, water doesn't have a shape. Instead, it **flows** and takes the shape of whatever container it's in. Let's investigate to see how.

- Find some plastic containers in your home that are different shapes.



- Fill a measuring cup with water and pour it into the different containers.
- Observe how the water flows and becomes different shapes.
- Describe the shapes or draw them in your notebook.
- Now, suck some water through a straw to see how water can take on a long and thin or curly shape!



What happens to water when it freezes?

Most of the time, water is a liquid. For example, we see waves in the ocean, raindrops in the sky, or water in a bathtub. Water isn't always in its liquid form, though. When the air **temperature** drops to 32°F (0°C), water freezes and is no longer a liquid. What does it become? Let's investigate to find out.

You will need:

- A black marker
- A clear plastic cup
- Water
- A freezer
- A notebook and pencil

1

Make a black line about halfway up on the side of a plastic cup.



2

Pour water into the cup up to the black line.



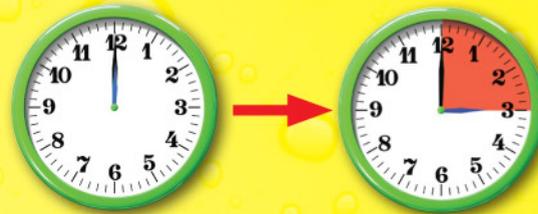
3 Place the cup in a freezer.

► **What do you think will happen to the water?**

Write down your **predictions** in your notebook.



4 After three hours, take the cup out of the freezer.



- **How has the water changed?**
- **Why did the water change?**
- **When the water was a liquid, it filled up the cup all the way to the black line. What do you observe about the water now?**

Record what happened in your notebook.

► **Do your predictions match what happened?**



5 Leave the cup on a countertop and observe how the frozen water changes.

(To learn more about this investigation and find the answers to the questions, see pages 20-21.)



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Read More

Hume, Desmond. *Earth's Water (Exploring Earth and Space)*. New York: Rosen (2013).

Lawrence, Ellen. *What Is the Water Cycle? (Weather Wise)*. New York: Bearport (2012).

Oxlade, Chris. *Water (How Does My Home Work?)*. Chicago: Heinemann Library (2013).

Learn More Online

To learn more about water, visit
www.bearportpublishing.com/FundamentalExperiments

About the Author

Ellen Lawrence lives in the United Kingdom. Her favorite books to write are those about nature and animals. In fact, the first book Ellen bought for herself, when she was six years old, was the story of a gorilla named Patty Cake that was born in New York's Central Park Zoo.



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Water

You drink it. Fish swim in it. It falls from the sky—and you can even skate on it! What is this amazing stuff? Water! You see and use it every day, but now it's time to take a closer look at this fascinating liquid. Inside this book are lots of fun experiments. So grab a notebook and start investigating the wet and wild world of water!

Color
Motion

Dirt
Water



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