



# Nature Activity

## Winter Glove Science

*Learn some of the science behind how our furry forest friends don't get frozen when it's freezing, then warm up and see it in action with your own experiment!*

**Winter Adaptations:** When it becomes cold outside plants, bugs, and animals must find ways to stay warm. There are many things that animals might do to **adapt** to the cold weather. An adaptation is like a super power that animals and plants use to survive. Learn about what the animals in your parks do through the three best ways that animals conquer the cold.



**Hibernate:** Some animals in Oregon like bears, bats, and snakes like to hibernate! These animals tend to stock up on food and sleep when the temperature drops, only getting up every once and a while on warm day or burrowing so deep that they don't come up until it's warm enough.

### What do you do to stay warm in winter?

**Migrate:** Birds are not the only animal that migrates! Many different fish and bugs, like butterflies, also migrate in the winter. Migration is when an animal moves towards warmer weather in the winter.

### Do you "migrate" towards warmer spaces when it gets cold?



**Acclimate:** Some animals survive the cold by adapting to it like rabbits, beavers, and rodents. Their fur might change color and get thicker to keep them safe and warm and their eating habits or behaviors might change. Some animals might eat bark and twigs instead of eating their normal foods.

### How to read your thermometer!

- In the united states, we use Fahrenheit, when reading the temperature use the left side under °F
- Notice the numbers on the left go up by 10's.
- The red line goes up as the temperature increases and down as it gets cooler.
- Look at where the red ends, look to the left to see the number that matches under the °F. That is the temperature.
- In the example picture, the red line is between the 80 and 90, so it is about 85 degrees!



Where the red line ends on the left is the temperature

# Winter Glove Science

What do you do in the winter to stay warm when it is cold outside? We could bundle up in warm clothes, with things like a jacket and gloves. Have you ever wondered how winter clothes, like gloves keep us warm? We are going to do an investigation to find out!

## Supplies:

- Winter gloves
- Thermometer

## Instructions:

1. Spend a little time thinking about how gloves keep you warm. Write down your hypothesis (your guess) about how they keep your hands warm.

<b>My hypothesis: I think gloves keep me warm by...</b>
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2. Now we are going to do an experiment and test your hypothesis! You are going to record a series of temperatures. What is the temperature inside where you are? What is the temperature outside? What is the temperature if you leave the glove outside, with the thermometer in it for five minutes? Now, put the glove on for five minutes, slip the thermometer inside and see what the temperature is. Record your temperatures below.

**Check out the tip on reading your thermometer on the other side of the page!**

	<b>Track your temperatures</b> (record the number of °F)
Temperature Inside	
Temperature Outside	
Temperature in the glove (outside without your hand)	
Temperature in the glove (outside with your hand inside)	

3. Now, look at your temperatures. Was the temperature the same inside the glove with and without your hand? Let's try to draw a conclusion from your experiment.

<b>My conclusion: I found that gloves are the warmest when...</b>
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