



NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

EXPERIMENT INSPIRED BY

## Poo Poo Panda Party

# HOW ANIMALS STAY WARM?

## MATERIALS

- ★ Large bowl    ★ Timer
- ★ Water    ★ Ice cubes
- ★ Vegetable Shortening
- ★ Rubber gloves
- ★ Plastic wrap



EXPERIMENT  
WOW TO:

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This simple experiment demonstrates how an animal's body fat helps keep them warm in cold temperatures.  
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- 1** Fill your bowl with cold water and ice.
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- 2** Put your bare hands into the bowl of ice water and measure how long you can keep them there.
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- 3** Make a fist and put your fist into a rubber glove
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- 4** Coat the gloved hand generously with shortening. Then cover it with plastic wrap. You probably need someone to help you with this step!
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- 5** Drop the gloved, shortening covered hand into the ice water and measure how long you can keep it in there with the fat covering your hand.
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- 6** Compare what it felt like with and without the shortening. This experiment mimics how blubber keeps animals warm in cold temperatures.