

Heat Keeping Jar

What you need

- 2 plastic jars with lids
- 1 larger jar with lid and 1 or 2 of the other jars
- 1 lid

What you do

Materials

- 1 piece of foil or paper
- 1 thermometer



Steps

1. Wrap the outside of one of the jars.
2. Fill a jug with water and pour the water in a container to keep it hot.
3. Quickly fill the jars with hot water, comparing the temperature difference with those of the foil wrapped jar and then:
4. Fill a jar with cold water on the bottom of the lid wrapped jar and then place it under the larger jar that has the big jar supporting the lid on top.
5. Leave the jars about 15 minutes and then measure their water temperature using the thermometer.
6. Compare the temperature difference between the wrapped and unwrapped jars.

Explanation

The lid on the jar stopped water from evaporating and losing heat away to the process. This is why between the big jar and the lid wrapped jar, a significant heat loss occurred.

The piece of foil or paper also stopped heat loss from the bottom of the jar.

The shiny foil helps to stop reflected heat from the jar.



Experiment

Setup

- 1 lid
- 1 thermometer
- 1 large jar
- 1 small jar
- 1 foil
- 1 piece of paper

- 1 lid wrapped jar
- 1 foil wrapped jar

Experiment

- 1. Find out how hot the sun is.



- 2. Measure the heat on the glass of water.

- 3. Heat the water again & compare.

- 4. Find the heat on the glass of water for second by using smaller jar.

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- 1. Find out how hot the sun is.
- 2. Measure the heat on the glass of water.
- 3. Heat the water again & compare.
- 4. Find the heat on the glass of water for second by using smaller jar.

Take a lid on the side of the table or box. Make the box large enough for

one place, which is opening of the

box or the bottom that is open

to bottom surface.

Bottom surface

Bottom surface can be used to make

the water?



Reading Comprehension Science Experiments Ideas

Danielle S. McNamara

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