

## Which Insulation Works Best?

Each of you has two cups.. Each of you will get some hot water in your two cups. Write down the beginning temperature in the “beginning” row under your cups. Then every five minutes we will take the temperature of the water in the cups and write the temperature in that same column of your cup cover. Every five minute the temperature of the water in the cups could drop, but one cup temperature could drop faster. If the temperature is dropping quickly, that cup cover is a “poor” insulator. If the temperature is dropping slowly it is a “good” insulator. Let’s see what happens to the temperatures as we do this experiment.

<b>Minutes</b>		
Beginning		
5 minutes		
10 minutes		
15 minutes		
20 minutes		
25 minutes		
30 minutes		
35 minutes		
40 minutes		

**Temperature**

### Insulation Comparison

<b>0</b>									
	<b>Beginning</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>
	<u><b>Minutes</b></u>								

Name \_\_\_\_\_ Teacher \_\_\_\_\_ School \_\_\_\_\_

**Does Insulating Things Work?**

1. Do you see a difference between the slopes of the two lines?

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2. What does a gentle slope mean in this experiment?

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3. What does a steeper slope mean in this experiment?

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4. Compare (analyze) the two slopes. Explain what happened.

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5. Explain why this happened.

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6. What is your conclusion?

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