

SCIENCE FAIR PROJECT  
MINI-BOARD (3rd)

NAME \_\_\_\_\_

1. PURPOSE

What do I want to find out?

Which materials are the best insulators ?

2. HYPOTHESIS

Predict what the outcome will be.

If I wrap a cup of water in aluminum foil, then the water will stay warm for a longer amount of time.

3. MATERIALS

What will I need to conduct my investigation?

- paper • measuring cup
- foil • thermometer
- wool • watch
- nylon • warm water
- 4 cans • paper/pencil

TITLE

Make it interesting. Usually written in the form of a question

Keeping Cosy  
(Lab Simulation)

4. PROCEDURE

What are the steps I used for my investigation?  
Change one variable and keep the others the same.

1. Collect all materials.
2. Wrap each can in an equal size piece of the different materials.
3. Pour an equal amount of warm water into each can.
4. Measure the temperature of the water in each can at the start using a thermometer and record.
5. Measure the temperature of the cans every 10 minutes and record.

5. RESULTS

Make observations, measure, classify, and communicate this on a table, chart or graph.  
(table, graph, or chart on back)

Time Passed	Paper (temp of water)	Foil (temp of water)	Fabric (temp of water)	Cotton wool (temp of water)
0 mins	40	40	40	40
10 mins	33	34	35	37
20 mins	26	28	30	34
30 mins	22	23	27	31
40 mins	21	21	23	28
50 mins	20	20	21	26
60 mins	20	20	20	24

6. CONCLUSION

Communicate the results of the experiment. See if your hypothesis was correct. Infer ideas from facts.

If I wrap a cup of water in cotton wool, it will stay warm longer. Cotton wool is the best insulator of the materials tested.

PHOTOGRAPHS/ SUPPORTING GRAPHICS

