

## Handout

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First, try with no insulation in the bags (this is called a “control”).

- Control: No insulation  
How cold did it feel?

Now try other materials.

- Material #1:  
How cold did it feel?
  
- Material #2:  
How cold did it feel?
  
- Material #3:  
How cold did it feel?
  
- Material #4:  
How cold did it feel?
  
- Material #5:  
How cold did it feel?

Questions:

1. Which material was the best insulator?
2. Try and find out what insulation is used in your house. Do you think it works as good as the material you tested?
3. Energy cannot be created or destroyed, just converted from one type to another. What type of energy does your house convert into thermal energy?
4. Keeping thermal energy from escaping your house in the winter saves energy on heating. How can insulation help us conserve energy in the summer?