

Student Name \_\_\_\_\_ Homeroom Teacher \_\_\_\_\_

### NTI Day 26

### Special Area -STEM Lab 3-5

You may access this lesson electronically from the following webpages:

Special Area - <http://cgesspecialarea.weebly.com/>

STEM Lab - <http://cgesstem.weebly.com/>

NGSS: 3-5-ETS1-1	Learning Target: I am looking at insulators and observing their properties that allow them to reduce heat transfer.
Think About	During the winter we wear different clothes outside than we do in the summer. Think about why? How do jackets, scarves, gloves, and hats help you stay warm in the winter when you are outside?
Read About the Science	Thermal energy is always moving to a place that is cooler. In the example above the thermal energy of your body tries to move or transfer to the cooler air around you. However, the clothing you choose can stop or slow down this heat transfer. Your clothing acts as an insulator. <b>Insulation</b> is any material that reduces heat transfer.
Observations	Look around your house for things that are trying to reduce heat transfer (thermos, drink cozy, potholder, blanket, mug, Styrofoam cup, etc.) It could be trying to keep the heat from moving in or from moving out. Notice the material that is acting as the insulator to reduce the heat transfer. What are some of the properties of the material that is an insulator - thick, thin, lightweight, heavy, hard, flexible, etc. Record your observations. You don't need to submit your observations. Keep them to help with tomorrow's challenge.
Reflection	Choose two insulators you observed and tell how they were trying to reduce the heat transfer. You may record your answer below and return this paper to school or you may submit your answer on the Response Form for NTI Day 26 on the Special Area web page.

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