

Insulation Experiment Directions

Make an “Insulation Glove”:

1. Place a scoop of shortening or lard inside one sandwich bag.
2. Turn a second bag inside out, place it inside the first bag and seal the two bags together. This will trap the fat between the bags
3. Seal the re-sealable edges and corners of the bags with tape.
4. Put your hand inside the bag and spread the fat around between the bags.
5. Repeat the previous steps with two bags without fat.

Investigate the Effect of Insulation:

1. Answer the questions on your worksheet labeled “Before the Experiment.”
2. Place a hand in the glove without fat (you can secure it around your wrist with a rubber band if you wish) and place it in the ice water. **DO NOT ALLOW WATER TO ENTER THE GLOVE.**
3. Record your observations.
4. Place a hand in the glove with fat and repeat the experiment.
5. Record your observations.
6. Answer the questions on the worksheet labeled “After the Experiment.”