The BLUBBER

Glove Experiment

- 1. Fill a water pitcher with ice water.
- 2. Scoop about 2 cups of shortening into a plastic bag.
- 3. Place the second plastic bag inside the first.
- Use your hands to spread a thin, even layer of shortening between the two bags.
- **5.** Fold the top edge of the inner plastic bag over, so it lies flat against the outer bag.
- 6. Seal the bags together with a piece of tape.
- 7. Using a timer, see how long you can stand to keep your bare hand submerged in the ice water.
- 8. Place your opposite hand inside the plastic bag and use the timer to see how long you can keep your blubber-covered hand submerged in the ice water. Be careful not to let water get into the top of the bag.



Items Needed:

2 plastic bags Strong tape 2 cups shortening Spoon Water pitcher

Water Timer

Ice

Follow Up Questions:

- 1. Why do marine mammals swim in icy cold water?
- 2. What would happen to animals that swim in cold water if they did not have an insulating layer of blubber?
- 3. Unlike seals, whales, and polar bears, people don't have a layer of blubber to keep them warm. What strategies do humans use to keep their bodies insulated during the winter?

