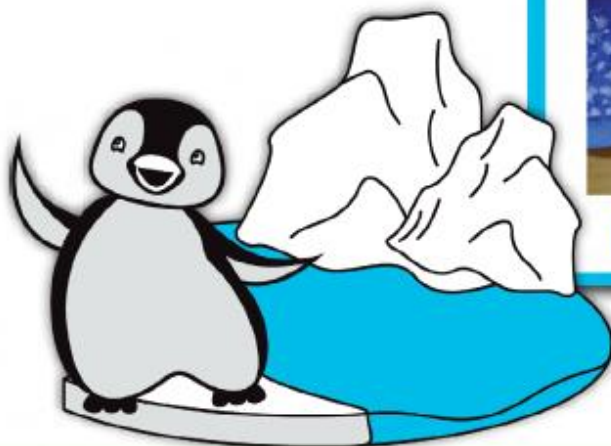


Ever wonder how penguins stay warm in the cold southern hemisphere?

Check out this experiment to feel the blubber effect for yourself!

What You Need:

- Shortening
- Latex gloves
- Ice
- Water
- Freezer
- Large Bowl
- Stopwatch



BLUBBER GLOVE



EXPERIMENT

Directions:

Step 1:

Place a large bowl with water and ice in the freezer for 5 minutes.

Step 2:

Have each girl take turns, putting their hands in the water. Using the stopwatch, time how long before their hand becomes uncomfortable and cold in the water.

Step 3:

Once all the girls have timed themselves, have each girl take a latex glove and put it on one of their hands. Cover the glove with the shortening.

Step 4:

Place the gloved hand covered in shortening into the freezing water. Again, time how long it takes to feel uncomfortable and cold in the water.



The girls will notice that the shortening acts as an insulator for protecting their hands from the cold of the icy water. This is similar to how the Emperor Penguins have their thick feathers and blubber under their skin. Feathers work great on land, but not as well as blubber to keep them warm in the cold ocean. This is where their blubber layer comes in handy! Pretty cool.... right?