

# WHALES GIANTS OF THE OCEAN

## Whale Adaptation - Blubber Objective Evaluation

Alternate Version for Lesson 6

- Using a thermometer measure the temperature of the water. Record the temperature on the data sheet.
- Insert a thermometer into each bag and submerge into the ice water. Be careful not to let any water enter the bags.
- After 1 minute, record the temperature of each thermometer in the data table.
- Remove the bags from the container, trade jobs with your partner/s and repeat the process 2 more times.
- Calculate the average temperature for the control and for the blubber bag.

### OBSERVE: DATA

Beginning water temperature: \_\_\_\_\_ ° F/C (circle the appropriate temp. scale)

Glove type	TEMPERATURE after 1 MINUTE (°F/C)			AVERAGE TEMPERATURE (°F/C) (sum of 3 trials ÷ 3)
	Trial 1	Trial 2	Trial 3	
Control (empty)				
Blubber-bag (filled)				

### THINK ABOUT IT

1. Did one glove get colder? Yes or No If yes, which one?

blubber bag (filled) or control bag (empty)

2. Is blubber a good insulator from the cold water? (use your data to explain your ideas)

3. Why do you think whales go to warmer areas of the ocean to give birth to young? Do you think whale calves are born with lots of blubber?