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Blubber Gloves Experiment

Explore how blubber keeps animals warm in cold water!

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Blubber and Marine Mammals

Blubber is the thick layer of fat under the skin of marine mammals such as whales, seals, and walrus for these animals lubber has several uses, helping them survive in icy Arctic waters.

Keeping WarmBlubber is like a warm winter at Fat is a good insulator: it keeps heat in and cold out. In marine mammals, the layer of blubber pusabody heat in, keeping the animal warm. Depending on species, the blubber layer can be 2 inches (5 cm) to Bearded Sealmage: NOAA/John Jansen. 12 inches (30 cm) thick!

Blubber also contains many more blood vessels than the fat in land animals. These blood vessels constrict, or get smaller, in cold water. Constricted blood vessels decreæthe amount of blood flow and conserve body heat.

Providing EnergyBlubber stores a lot of energy in the form of proteins and pids (a type of fat The animal can use this energy when food is scarce. Fo example, nursing mothers build up thick stores of blubber before giving birth.

Right: Beluga whale blubbelmage: Marci Trana, fisheries.org.

Floating: Blubber is less dense than the ocean water surrounding it, so animals with blubber naturally float. This allows the animal to conserve energy while swimming, and float near the surface to breathe while resting.

> In many Arctic cultures, including the Iñupiat and Yup'ik peoples, blubber is an important part of their diet. It is an important source of energytamin D, and vitamin CThick slices of whale blubber and skin

