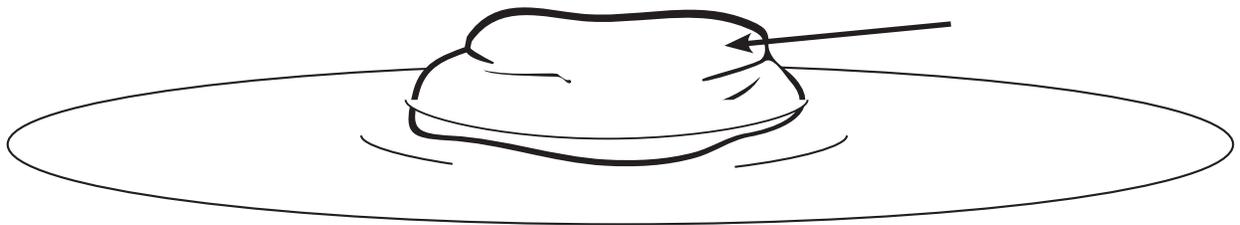


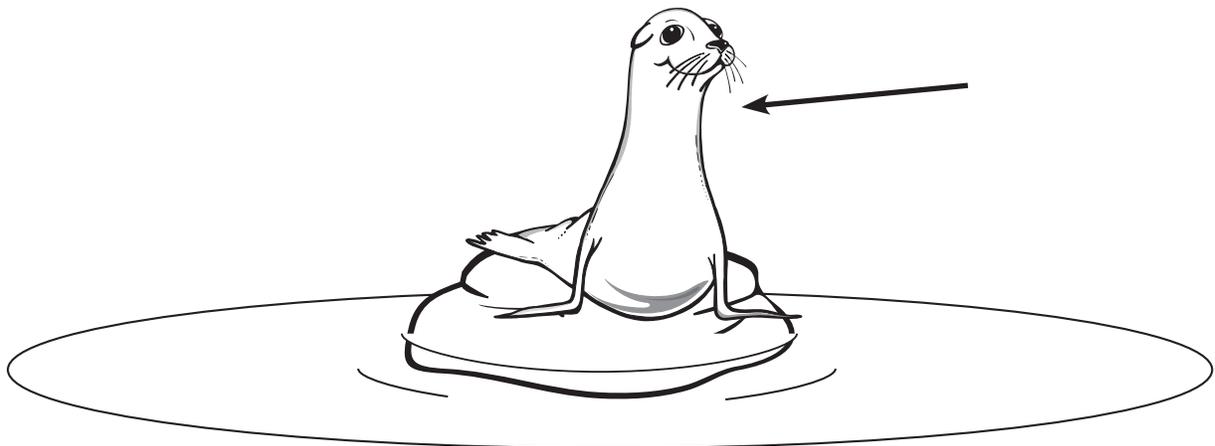
# Hogle Zoo Heat!

How do conduction, convection, and radiation work together?

It's a hot morning at Utah's Hogle Zoo. The sun warms the rocks inside the sea lion home. The rocks become hot due to radiation from the sun.



A sea lion waddles over to a rock and lays down to nap on top of it. Now the sea lion is warmed by the radiation from the sun, but she is also warmed by the conduction from the hot rock below her.



When the sea lion wakes up, she is quite hot and decides to jump deep into the water below her. The deeper water is cool and she instantly cools off. This is because of convection and conduction. The heat from the hot sea lion transfers to the cool water by conduction, and the water at the bottom of the pool is cooler because of convection.

