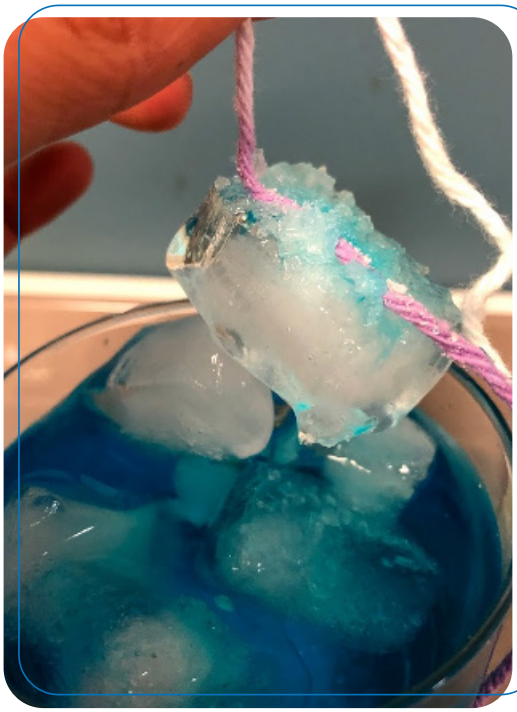
FISHING FOR ICE

How does ice melt? Why does salt melt ice? Why doesn't the ocean freeze? Try for yourself and see how the salt lowers the freezing point.



MATERIALS

- Cubed ice
- Salt
- Yarn or Twine
- Food coloring (optional)
- Clear glass

SCIENCE

1. Fill a glass with ice cubes then add food coloring and water until it is almost full.
2. Place yarn over an ice cube and sprinkle generously with salt.
3. Wait 30-60 seconds.
4. Try picking up your ice by lifting the yarn.

WHAT HAPPENED?

Salt lowers the freezing point of ice (therefore ice with salt freezes at a lower temperature). When you added the salt, the ice began to melt. The salt water comes in contact with the cold surface of the ice cube and the water refroze around the string. This creates the attachment between the ice cube and the string, allowing you to lift the ice.

Some animals have evolved to survive in very cold habitats. Fish have anti-freezing proteins in their blood, and other animals have body coverings that insulate against the cold. *Draw a cold habitat with three animals that have evolved to live in cold temperatures. Include at least one bird, one mammal and one type of fish.*