

Exploratory Demo: Salt & Ice

Put picture of ice on board

put water molecules together on ice

Say: When water molecules group together they form ice. And when more water molecules are grouping together we say it is freezing.

Put water molecules off ice

Say: when they break away they form water and when more molecules are breaking away it is melting.

Add salt to ice

the adding of the salt causes the # of water molecules attaching to the ice to be reduced. The salt stops more ice from forming

The # of molecules breaking away (melting) stays the same.

Breaking away from the ice **requires energy**

this is achieved by **taking heat** from the surrounding water.

The temp. drops below 32degrees F (freezing point) until it is cold enough to freeze the ice cream.

Extend:

tell class that salt is also used to help melt the snow and ice that is on our streets and walkways in the winter. The salt stops more ice from forming on the ground and helps it to melt so it is not slippery where we walk and drive.

Ask what they learned about ice cream and why salt is needed to make it.



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