

The Awesomely Amazing Science club

WHIZZ POP BANG!

Teacher-led activity

ICE AND OIL



You will need:

- Ice cubes
- Glass of water
- Glass of cooking oil



What you do:

You could do this as an example or get every child to do it, as it's a quick activity.

Drop an ice cube into a glass of water and observe what happens. Then try dropping an ice cube into a glass of cooking oil.

You should find:

The ice cube will float in the water because it is less dense than the water around it. It will melt and become part of the glass of water. Make sure the children don't have the misconception that the ice disappears.

The ice cube in the glass of cooking oil sinks to the bottom because the oil has a lower density than water, even lower than ice.

Pupil activity

SALT FREEZE

You will need:

- Cream
- Milk
- Sugar
- Vanilla essence
- Crushed ice
- Salt
- Small sealable food bags
- Large sealable food bags
- Towels

What you do: (pupils should work in pairs)

1. Pour 1/2 cup of cream, 1/2 cup of milk, 1 tbsp of sugar and 1/2 tsp of vanilla essence into a sealable food bag and seal it well.
2. Fill another, larger sealable food bag with crushed ice and add 6 tbsp of salt, then pop in the smaller bag of ingredients and seal the outer bag.
3. Wrap the whole lot in a towel and SHAKE IT!
4. After about 10 minutes of shaking you should have a bag of delicious ice cream! (Just remember to rinse off the salt before you open it.)

You should find:

The salt melts the ice. The melting process takes heat energy out of the icy water, producing super-cold saltwater that freezes the ice cream mixture.

