

# Wave Bye-Bye



2 minutes

## What You Will Do

Demonstrate a hand-held wave machine.

## Get it Together

- ◆ Quart-size resealable bag
- ◆ Blue food coloring
- ◆ Bottle of mineral oil
- ◆ Water

## Procedure

1. Fill the bag half full of water.
2. Add a few drops of food coloring.
3. Fill the rest of the bag with mineral oil.
4. Get as much air out of the bag as possible, then seal it.
5. Rock the bag back and forth.



## Clean Up

Place the sealed bag and its contents in the trash.

## What Now?

Try the mixture with different liquids. Add solids and see where they end up in relation to the liquids.

## A Closer Look

The mineral oil is less dense than the water and, therefore, will “float” on the surface. The more dense material will always “sink” to the bottom.