

# Make a Wave Bottle!



## Materials:

Clean, empty 2 liter soda bottle with cap; blue food coloring; Water; cooking oil.

## Procedure:

1. Using clean water, fill a soda bottle about one-third full.
2. Add a few drops of blue food coloring and swish bottle till water turns blue.
3. Fill the rest of the bottle with cooking oil, right up to the top.
4. Gently shake the sideways bottle back and forth to make wave action effect.

## Summary Questions:

1. How are waves generated?
2. What is the source of a wave's energy?
3. What are some of the causes of waves?
4. Describe the action of a wave. Does a wave make the water move along with it, or does a wave move through the water?
5. How can waves be changed?
6. If something happens inside the bottle, does it affect all the water?
7. Would the motion of waves could carry and disperse pollution? **EXPLAIN.**
8. Where does the energy come from that moves the waves in your bottle?