

# LAVA LAMP

## MATERIALS

- CLEAR PLASTIC BOTTLE
- VEGETABLE OIL
- FOOD COLORING
- ALKA-SELTZER TABLETS
- FUNNEL
- EYE PROTECTION



## INSTRUCTIONS

1. FILL THE BOTTLE ABOUT 1/4 FULL WITH WATER USING THE FUNNEL.
2. ADD A FEW DROPS OF FOOD COLORING TO THE WATER.
3. POUR VEGETABLE OIL INTO THE BOTTLE UNTIL IT'S ALMOST FULL USING THE FUNNEL. LEAVE SOME SPACE AT THE TOP.
4. WAIT FOR THE OIL AND WATER TO SEPARATE.
5. BREAK AN ALKA-SELTZER TABLET INTO A FEW SMALL PIECES. DROP ONE PIECE INTO THE BOTTLE AND WATCH WHAT HAPPENS.
6. YOU CAN ADD MORE ALKA-SELTZER PIECES AS NEEDED TO KEEP THE BUBBLES GOING.

## EXPLANATION

OIL SITS ON TOP OF WATER BECAUSE OIL IS LESS DENSE (LIGHTER) THAN WATER. THE ALKA SELTZER TABLET MIXES WITH THE COLORED WATER, AND BUBBLES OF CARBON DIOXIDE GAS ARE MADE. CARBON DIOXIDE GAS IS LESS DENSE THAN WATER AND OIL AND WILL RISE TO THE TOP OF THE BOTTLE. AS THE GAS BUBBLES RISE THROUGH THE OIL, THEY CARRY SOME DROPLETS OF COLORED WATER WITH THEM. THE COLORED WATER FALLS BACK DOWN TO THE BOTTOM BECAUSE IT IS MORE DENSE THAN OIL. THIS HAPPENS AGAIN AND AGAIN UNTIL NO MORE CARBON DIOXIDE IS BEING MADE.