



FIREWORKS IN A JAR

ONE OF THE BEST PART OF OKC DODGERS GAMES IS THE FRIDAY NIGHT FIREWORKS DISPLAYS! NOW, YOU CAN ENJOY A SAFE AND FAMILY-FRIENDLY FIREWORKS SHOW AT HOME WITH THIS EXPERIMENT!

MATERIALS YOU NEED:

OIL
WATER
FOOD COLORING
JAR, TALL GLASS OR CONTAINER

INSTRUCTIONS:

1. FILL YOUR JAR 3/4 OF THE WAY FULL WITH WARM WATER.
2. IN A SEPARATE BOWL, MIX 3-4 TABLESPOONS OF OIL AND SEVERAL DROPS OF DIFFERENT COLORS OF FOOD COLORING (4 DROPS OF EACH COLOR: RED, YELLOW, BLUE AND GREEN IS A GREAT PLACE TO START).
3. USE A FORK TO GENTLY MIX THE OIL AND FOOD COLORING TOGETHER.
4. GENTLY POUR THE OIL MIXTURE INTO THE JAR.
5. WATCH WHAT HAPPENS - THE FOOD COLORING WILL SLOWLY SINK OUT OF THE OIL AND INTO THE WATER. WHEN IT HAPPENS IT WILL EXPAND AND BEGIN TO MIX WITH THE OTHER COLORS.



THE SCIENCE BEHIND FIREWORKS IN A JAR:

FOOD COLORING DISSOLVES IN WATER BUT NOT IN OIL. BECAUSE THE OIL IS LESS DENSE THAN THE WATER, IT WILL FLOAT AT THE TOP. THE COLORED DROPLETS WILL BEGIN TO SINK BECAUSE THEY ARE HEAVIER THAN THE OIL. ONCE THEY SINK INTO THE WATER, THEY WILL BEGIN DISSOLVING INTO THE WATER (WHICH WILL LOOK LIKE A TINY EXPLOSION).