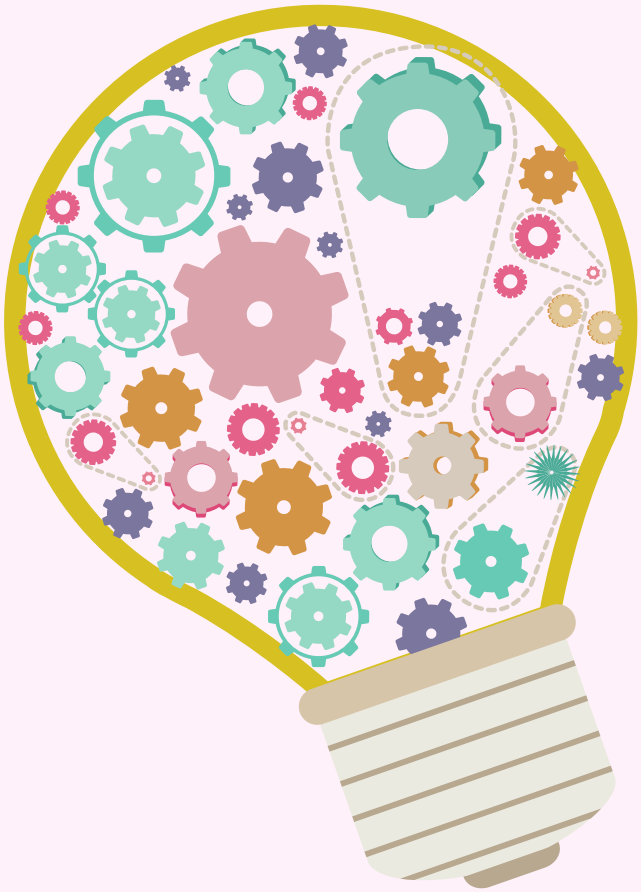
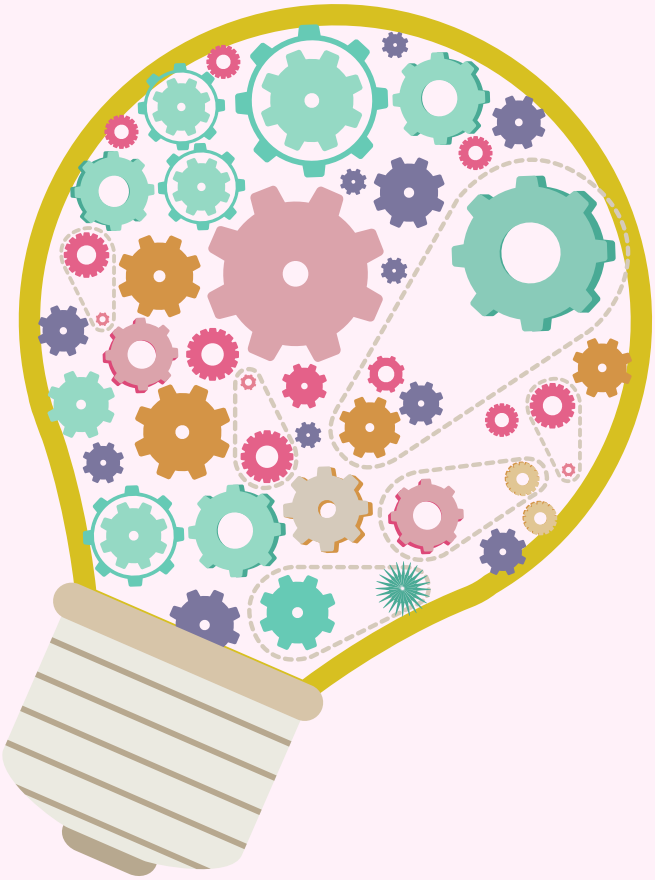
MAKE YOUR OWN

LAVA LAMP

A FUN AND BUBBLY EXPERIMENT

This is a super easy Lava Lamp experiment you can safely do at home!





LAVA LAMP SCIENCE

INTRODUCTION

Kids LOVE science experiments and these DIY lava lamps are sure to be popular at your house! In this experiment you will learn that oil and water do not mix - they really don't like each other! And that when the effervescent tablets hit the water in the lamp, they release carbon dioxide that rises up through the oil making awesome colored bubbles. Here's how you can easily make my favorite DIY lava lamp in your own home.

IMPORTANT INFORMATION

While the materials used in these experiments are generally non-toxic, they don't taste very nice. Do not allow your children to consume any of the water and oil mixture. Remember that food coloring and liquid watercolors can stain skin, clothing and furniture. It might be a good idea to use a drip tray or some sort of protective mat to prevent spills from damaging surrounding areas. Wearing an art smock or old clothing may also be a good idea! ALWAYS supervise your children carefully for the duration of the experiment - especially when handling the effervescent tablets. Join in with your children. It will be fun!

HOW TO USE THIS WORKBOOK

Read through all the information in this workbook. You will find the materials and step-by-step instructions required to make your own lava lamp. Print the worksheet and complete alongside your experiment. Enjoy!

DIY LAVA LAMPS

Here are the instruction for how to make your very own lava lamp. These lamps will look like this first picture below.

MATERIALS

You will need:

- Empty plastic water bottle
- Cooking oil
- Water
- Food coloring
- Effervescent tablet

INSTRUCTIONS

1. Carefully add oil to the water bottle. Fill until the bottle is 1/2 -2/3 full.

2. Add water until the bottle is 3/4 full. Allow the water and oil to completely separate.

3. Add 2-3 drops of food coloring. The color will sink to the bottom.

4. Add 1/2 an effervescent tablet to the bottle.

5. You may continue to add more effervescent tablets to see what happens to the speed and size of the bubbles.

WARNING

Do NOT place the lid on the bottle while the lamps are bubbling. The gas produced needs to escape from the open lid. And always supervise children when handling effervescent tablets.

DISCUSSION

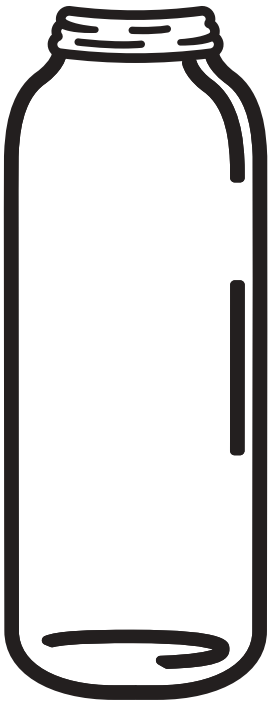
In this experiment, carbon dioxide is produced by the tablet in the water layer. The carbon dioxide then carries the colored dye up through the oil in a bubble to the surface where it is released. Without the carbon dioxide holding it, the colored dye then falls back down to the water layer. Did your lamp stop working? Did you try to restart your lamp by adding more tablet pieces? Did it work? What other scientific questions might you ask?

DIY LAVA LAMP

NAME: **DATE:**

WHAT DO YOU THINK WILL HAPPEN:

DRAW WHAT HAPPENED:



EXPLAIN WHAT HAPPENED: