

Individual Activity Lesson Plan

Date: Wednesday 13th May 2020

Activity Title: Making Lava Lamps

Learning Intention: To begin to show an interest in how things work.

Activity Overview:

Mix materials together to make your own lava lamp.

Links to EYFS: Understanding the World

Resources:

Clear plastic bottle
Vegetable oil (one cup)
Water (one cup)
Food colouring
Glitter (optional)

Key vocabulary:

Science, explore, predict, happens, pour, scoop, drop, mix, observe.

ACTIVITY IMPLEMENTATION (including key questions)

Introduction:

- Gather the resources listed above.
- Use this opportunity to invite your child to explore the resources in front of them and ask questions.
 - Do you know the name of this?
 - What do we normally use this for?
 - When do we normally use it?



Main Activity:

- Explain to your child that today they are going to be a scientist and make a lava lamp!
- Show your child some pictures of lava lamps on a tablet/laptop, or perhaps you even have one at home!
- Follow the method below to make the lava lamp.

Method:

- Fill the clear plastic bottle about a quarter full with water.
- Fill the rest of the bottle (almost to the top) with vegetable oil.
- The oil and water should separate into two layers, water at the bottom and oil at the top.
- Once the oil and water have separated, add enough food colouring to get the colour you want.
- Add glitter (optional)
- Secure the lid and shake!
- When it's dark, place a small lamp or torch behind the bottle (make sure it's not too close or touching the bottle).

Top tip: *Pop in half an alka seltzer tablet and watch the bubbles form. Add more alka seltzer little by little to keep the bubbles rising and falling.*

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- What is happening?
- What colours can you see?
- What happened to the mixture when you shook the bottle?

Review:

Give your children the opportunity to explore what happens when they shake the bottle. Have a discussion about the water and the oil being two different properties, which don't mix well together. Can they point to the oily parts? Where is the water?

Additional ways to support your child:

- If you have a funnel available, use this to support pouring.
- Break the pouring down into smaller parts. Pour small amounts of the water/oil into a jug, for your child to then pour into the bottle – repeat until the required amount has been added.

Extension:

-Challenge your child to draw a picture of their lava lamp.