

Science for over 2's

Oil and water experiment



Description

While enjoying this science exploration children will explore how oil and water do not mix together. For young children, there is no need to fully explain the concept behind it, but it is a great start to simply explore the two liquids and see how they behave when mixed together.

Resources needed

- Baby oil or vegetable oil (depends on if you want it to be clear).
- Washable liquid watercolours or food colouring
- Pipettes or droppers

*If you decide to use baby oil and watercolours, make sure your kids won't put this in their mouths! As always, keep a close eye on your kids any time that you are doing a science experiment.

Duration

For as long as children keep their interest.

Intent

For the children to develop their senses using different materials with wonderment and awe.

To observe the effect of water and oil mixed and how they react with each other.

To be able to explain what they see.



Implementation

1. Put water in several cups and add food colouring or liquid watercolours to the water. Then stir to combine.
2. Place a pipette in each coloured glass of water.
3. Fill a cup about half way with oil.

Now let the kids have fun exploring oil and water!

Encourage discussion about what the child is doing and what is happening and model some vocabulary such us: **bottom , top, drops, mixed, separate, full, half full, empty, more, less ...**

EYFS Learning outcomes

Personal social and emotional learning.

- Confident to speak to others about own needs, wants, interests and opinions.

Communication and Language.

- Is able to follow directions
- Uses language as a powerful means of widening contacts, sharing feelings, experiences and thoughts.
- Uses talk to connect ideas, explain what is happening and anticipate what might happen next, recall and relive past experiences.
- Questions why things happen and gives explanations.

Physical development.

- Uses one-handed tools and equipment.
- Shows control in holding and using jugs to pour, hammers, books and mark-making tools.

Mathematics

- Begins to make comparisons between quantities.

Understanding the World



- Can talk about some of the things they have observed such as plants, animals, natural and found objects.
- Talks about why things happen and how things work.
- Developing an understanding of growth, decay and changes over time.
- Shows care and concern for living things and the environment

Expressive Arts and Design

- Realises tools can be used for a purpose.
- Explores colour and how colours can be changed.

