

### How can I use this with my children?

These fun science experiments are a great addition to any science topic or fun ideas for a party!

### How does this help my children's learning?

These science activities will help your child to problem solve, communicate with others and have an awareness of the world around them.

### Ideas for further learning:

Why not try some other experiments to do at home in this **Science Experiments** to Do at Home Pack?



# **Science Experiments at Home**

### Weather Jars - Tornado in a Jar

#### **Equipment:**

empty, clean clear jar with a lid jug of water 1 teaspoon of washing up liquid 1 teaspoon of vinegar glitter or small objects for the jar (optional)

#### Instructions:

- 1. <sup>3</sup>/<sub>4</sub> fill the jar with water, leaving about 3cm gap at the top for movement.
- 2. Pour in the washing up liquid and vinegar.
- 3. Fasten the lid of the jar on securely.
- 4. Swirl the jar for a few seconds to get the tornado going.
- 5. Place the jar onto a table and watch the tornado move.

### Weather Jars - Rain Cloud Jar

#### **Equipment:**

empty, clean clear jar water shaving foam food colouring

#### Instructions:

- 1. Fill the jar almost to the top with water.
- 2. Cover the top with a 'cloud' of shaving cream.
- 3. Pour a few drops of blue food colouring through the shaving foam.
- 4. The foam will 'rain' once it can't hold onto the colouring anymore a little like rain cloud formation.

Disclaimer:

We hope the information on our website and resource is useful. However, some ingredients and/or materials used might cause allergic reactions, so if you have any concerns about your own or somebody else's health or wellbeing, always speak to a qualified health professional. Remember, activities listed within the resource should always be supervised by an appropriate adult.

### Mini Lava Lamps

#### **Equipment:**

empty, clean clear jar with a lid

jug of water

food colouring

vegetable oil

fizzing effervescent tablet (vitamin C or indigestion tablet)

#### Instructions:

- 1. Half fill the jar with vegetable oil.
- 2. Add a few drops of food colouring to some water and pour into the jar so it is <sup>3</sup>/<sub>4</sub> full.
- 3. Wait a few moments for the liquids to separate.
- 4. Add the fizzing tablet to the liquid.
- 5. Put the lid securely back onto the jar.
- 6. Watch as the oil and water mix together and then separate.

#### Alternative:

- 1. Pour oil into the jar until it is <sup>3</sup>/<sub>4</sub> full.
- 2. Fill a disposable syringe with water and add a few drops of food colouring.
- 3. Shake to mix.
- 4. Carefully drop a few drops of coloured water into the oil.
- 5. Secure the lid and give the jar a shake.
- 6. Watch as the water and oil separate.

### **Dancing Worms**

#### Instructions:

- 1. Depending on the size of your worms and container, you may need to cut them into shorter pieces.
- 2. Add three tablespoons of baking soda to a glass of lukewarm water.
- 3. Drop the worms into the glass and stir until mixed.
- 4. Wait 15 minutes for the baking soda to soak into the worms.
- 5. While you wait, fill the second container with white vinegar.
- 6. After 15 minutes, fish the worms out of the baking soda with a fork and carefully put a few (less is more) into the vinegar.
- 7. Watch as the worms start bubbling and rising to the top of the glass.



- gummy worms
- baking soda
- white vinegar

2 transparent containers or glasses

fork

knife & chopping board (optional)

### **Treasure Slime**

#### **Equipment:**

bucket, washing up bowl or suitable container/tray

cornflour

water

treasure (Science Cut-Outs can be laminated and hidden in the slime to find)

#### Instructions:

- 1. Prepare your treasure. If using paper, laminate them to keep them intact in the slime.
- 2. Scatter some of your treasure in your container.
- 3. Pour half a box of cornflour into the container and add enough water until it forms a custard-like texture.
- 4. Scatter the treasure through the slime to distribute it evenly.
- 5. Let children discover the solid and liquid differences when they put their hands in to try and retrieve the treasure.

#### Alternative:

- Treasure could include the name of a prize.
- Treasure could include letters to spell out a word.
- Treasure could include pictures of science equipment.

### Silly Putty

#### **Equipment:**

200g cornflour

150-200ml clear gel hand soap (hair-gel consistency)

gel food colouring

mixing bowl

mixing spoon

#### Instructions:

- 1. Mix together the cornflour and soap in a bowl.
- 2. Add a little bit of soap at a time to form a dough-like consistency.
- 3. Add a few drops of gel food colouring
- 4. Mix together until the colour is evenly spread.
- 5. When the putty is moldable, a little bit slimy but not sticky, it is ready to play with.

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