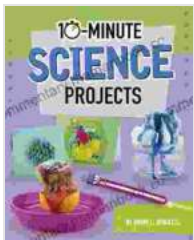


10-Minute Science Projects: Fun and Educational Activities for Busy Parents and Kids

Are you a busy parent who wants to provide your kids with fun and educational experiences, but don't have a lot of time? If so, these 10-minute science projects are perfect for you! These projects are quick, easy, and require minimal materials, making them perfect for busy families.



10-Minute Science Projects (10-Minute Makers)

by Sarah L. Schuette

★★★★★ 5 out of 5

Language : English

File size : 9283 KB

Screen Reader : Supported

Print length : 32 pages



1. Dancing Raisins

Materials:

- Clear glass
- Water
- Raisins

Instructions:

1. Fill the glass with water.
2. Add a handful of raisins to the water.
3. Observe what happens to the raisins.

What's happening: The raisins will start to sink to the bottom of the glass. However, after a few seconds, they will start to rise to the top. This is because the raisins are less dense than the water, so they float. As the raisins rise, they release carbon dioxide gas, which causes them to become even less dense and rise even higher. This process will continue until all of the raisins have floated to the top of the glass.

2. Magic Floating Ball

Materials:

- Hairdryer
- Ping-pong ball

Instructions:

1. Turn on the hairdryer and point it upwards.
2. Place the ping-pong ball in the stream of air from the hairdryer.
3. Observe what happens to the ping-pong ball.

What's happening: The ping-pong ball will float in the stream of air from the hairdryer. This is because the air from the hairdryer is moving faster than the air around it, which creates an area of low pressure around the ball. This low pressure area pulls the ball up and keeps it floating.

3. Rainbow in a Jar

Materials:

- Clear glass jar
- Water
- Vegetable oil
- Food coloring (red, yellow, blue)

Instructions:

1. Fill the jar about 1/4 full with water.
2. Add a layer of vegetable oil about 1/2 inch thick.
3. Add a few drops of red food coloring to the water.
4. Add a few drops of yellow food coloring to the vegetable oil.
5. Add a few drops of blue food coloring to the vegetable oil.
6. Observe what happens.

What's happening: The food coloring will form a rainbow in the jar. This is because the different colors of food coloring have different densities. The red food coloring is the most dense, so it will sink to the bottom of the jar. The yellow food coloring is less dense, so it will float on top of the red food coloring. The blue food coloring is the least dense, so it will float on top of the yellow food coloring. This creates a rainbow effect in the jar.

4. Lava Lamp

Materials:

- Clear glass jar
- Water
- Vegetable oil
- Food coloring (red or blue)
- Alka-Seltzer tablet

Instructions:

1. Fill the jar about 1/2 full with water.
2. Add a layer of vegetable oil about 1/4 inch thick.
3. Add a few drops of food coloring to the water.
4. Break an Alka-Seltzer tablet into a few pieces and drop them into the jar.
5. Observe what happens.

What's happening: The Alka-Seltzer tablet will react with the water and create carbon dioxide gas. This gas will cause the water and oil to mix together, creating a lava lamp effect. The food coloring will help to make the lava lamp more visually appealing.

5. Magic Milk

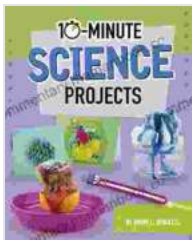
Materials:

- Shallow dish
- Milk

- Food coloring (different colors)
- Dish soap

Instructions:

1. Pour milk into the dish to a depth of about 1 inch.
2. Add a few drops of food coloring to the milk.
3. Add a drop of dish soap to the center of the dish.
4. Observe what happens.



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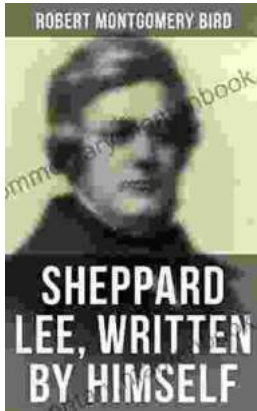
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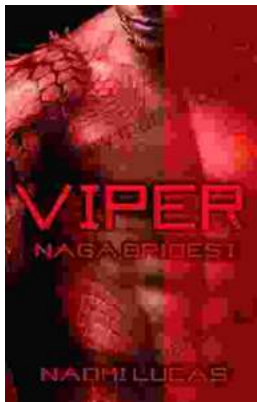
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