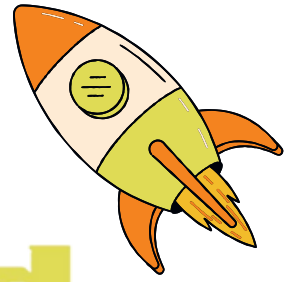
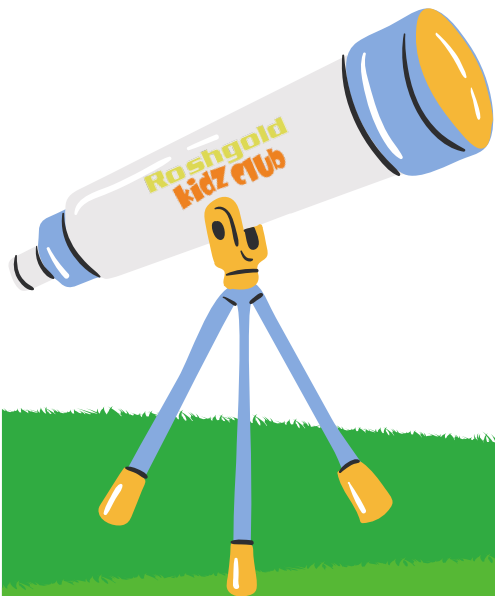
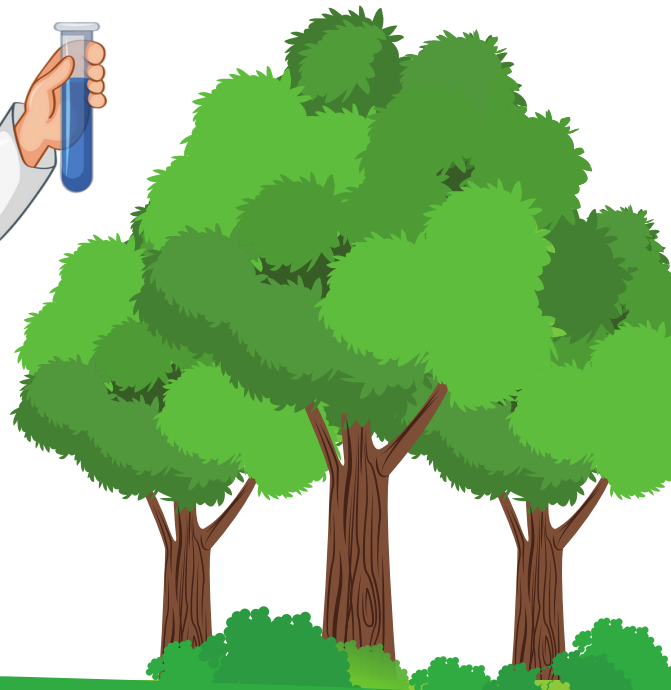


CALLING ALL YOUNG

Scientists



Roshgold  
kidz club





## DEAR YOUNG SCIENTISTS AND ADVENTURERS,

The holidays are a magical time, filled with wonder, excitement, and the perfect opportunity to explore the incredible world of science! At the Roshgold Kidz Club, we believe that curiosity and creativity are the keys to unlocking the mysteries of the universe. That's why we've created this special Science Experiment Booklet just for you!

Inside these pages, you'll find three fun, easy, and educational experiments that you can do right at home. Each activity is designed to spark your imagination and give you a hands-on experience with the fascinating world of science. Get ready to dive into the colorful and exciting world of:

1. Rainbow Walking Water – Discover the magic of capillary action and create a beautiful rainbow with just water, paper towels, and food coloring. Watch as the colors travel and mix, forming a vibrant display right before your eyes!
2. Dr. Seuss's Oobleck – Inspired by the classic Dr. Seuss story, you'll make your own non-Newtonian fluid that acts like both a liquid and a solid. This mysterious substance will amaze you with its unique properties and endless fun.
3. Rain Cloud in a Jar – Learn about weather and precipitation by creating a miniature rainstorm in a jar. With just a few simple materials, you'll see how clouds form and release rain, bringing the wonders of the sky into your home.

These experiments are not only exciting but also teach valuable lessons about chemistry, physics, and meteorology. You'll be able to impress your family and friends with your newfound knowledge and skills, and who knows? You might even inspire them to join in the fun!

So grab your lab coat, gather your materials, and get ready to embark on a holiday adventure filled with discovery and wonder. The Roshgold Kidz Club is thrilled to have you on this journey, and we can't wait to see the amazing things you'll create and learn.

Happy Experimenting!

**ROSHGOLD KIDZ CLUB**



PS: DON'T FORGET TO SHARE PICTURES OF YOUR SCIENCE EXPERIMENTS WITH US!

1

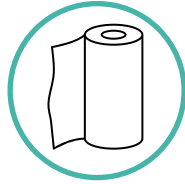
# Rainbow Walking Water



## Supplies Needed:



7 small plastic cups/glasses



Paper towels



Food Colouring (Red, Yellow, Blue)



Water

## Instructions:

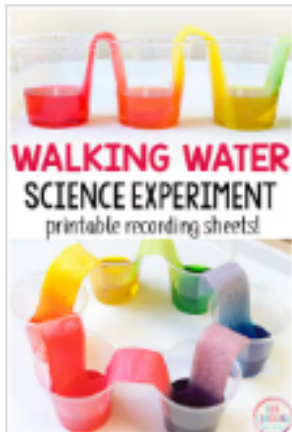
- Place 7 cups in a row and pour water in the 1st, 3rd, 5th, and 7th cup. (The cups with water should be 3/4 way full)
- Add 5 drops of red food coloring to the 1st cup and the 7th cup.
- Add 5 drops of yellow food coloring to the 3rd cup.
- Add 5 drops of blue food coloring to the 5th cup.
- Take a half sheet of paper towel and fold it in half lengthwise and in half again lengthwise.
- Trim off some of the length so that there isn't too much excess paper towel that will stick up in the air between each cup. This will make the water walk more quickly.
- Place one half of a rolled paper towel in the 1st cup and place the other half in the cup next to it. Then another paper towel from 2nd cup and into the 3rd cup. This continues until you have placed the last paper towel that drapes over from the 6th cup to the 7th cup.
- Stare at the cups and watch what starts happening. You should quickly be able to see the colored water begin to crawl up the paper towel.

1

# Rainbow Walking Water



Watch the video here:



## Rainbow Walking Water Science Experiment for Kids

This walking water science experiment is so much fun and super easy to do! My kids absolutely loved it! It even...

[funlearningforkids.com](https://bit.ly/walkingwaterscience)



<https://bit.ly/walkingwaterscience>



Adapted from [www.funlearningforkids.com](https://www.funlearningforkids.com)

# 2

## Dr Seuss's Oobleck



### Supplies Needed:



2 cups of  
cornstarch



1 cup of  
water



Food Colouring  
(optional)



Mixing bowl  
or tray

### Instructions:

- Pour the cornstarch into the container or tray.
- Mix a few drops of food colouring with the 1 cup of water.
- Now slowly combine the water and cornstarch.
- Stir the mixture with a spoon for as long as you can. It will become hard to stir and you will probably need to finish mixing with your hands. You will know it is ready when it forms into a thick, gooey substance that feels solid when you press it with your fingers, but flows like a liquid when you release the pressure. It will take about 5 minutes to mix.

**Tip:** If the oobleck is too runny, you can add more cornstarch to thicken it. If it is too thick, you can add more water to thin it out. Don't add too much at once, just add a little bit at a time.

Once your oobleck is the right consistency, you can start exploring its unique properties. Try slowly dipping your fingers into the oobleck and feel how it behaves like a liquid. Then, quickly move your fingers through the oobleck and feel how it becomes solid. You can also try dropping a small object, such as a toy, into the oobleck. Does it sit on top or sink to the bottom?

2

# Dr Seuss's Oobleck



Adapted from [www.funlearningforkids.com](http://www.funlearningforkids.com)

3

# Rain Cloud in a Jar



## Supplies Needed:



A large Jar



Shaving  
Cream



Gel Food Colouring  
or Washable water  
colours



A  
Dropper

## Instructions:

### Setting Up the Weather Experiment

- In a small cup, mix the food coloring with some water.
- Fill the large jar with water until it is about 3/4 full.
- Place the jar and the cups of colored water on the table. Place a pipette in each cup of colored water.
- Right before the kids are ready to do the experiment, spray a bunch of shaving cream in the jar until it is just a small bit above the top of the jar.

### Doing the Rain Cloud in a Jar Experiment

- Pick up some colored water with a dropper and squirt it on top of the shaving cream cloud. Repeat this step one or two more times, but pay close attention to what is happening below the cloud!
- The colored water will begin to seep down through the shaving cream and into the water below. Just like rain!

### How it Works

The shaving cream represents the clouds and the water represents the air. The colored water represents rain. As the colored water saturates the “cloud”, it gets heavy and eventually is so heavy that it can no longer hold the water. It “rains” down into the jar – through the “air.” It is just like real rain falls through the air.

Adapted from [www.funlearningforkids.com](http://www.funlearningforkids.com)

3

# Rain Cloud in a Jar



Watch the video here:



**Rain Cloud in a Jar Science Experiment with Printable...**

This rain cloud in a jar is a weather science experiment gives young children a chance to explore clouds...

funlearningforkids.com

Adapted from www.funlearningforkids.com

 <https://bit.ly/raincloudjar>



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