

OH WOW!

Rain Cloud in a Jar

Materials :

- Clear jar or cup
- Shaving cream
- Blue food coloring
- Water
- Small cup
- Pipette or dropper



Procedure :

1. Add water to clear jar or cup- add enough to fill $\frac{3}{4}$ of the jar.
2. Add shaving cream to the top of the water in the clear jar. These are your clouds!
3. In a smaller cup, mix some water and blue food coloring. This will be the rain!
4. Using a dropper or pipettes, squeeze the blue liquid on top of the shaving cream
5. Wait and observe what happens as the food coloring makes its way through the shaving cream.

The Science Behind It :

May is Wacky Weather month, and this experiment gives a visual representation of what causes rain! The blue food coloring represents rain and the shaving cream represents clouds. The blue liquid sits on the clouds and when it gets too heavy, the clouds become **oversaturated** and it starts to rain.

Challenge Activities :

1. Rainbow Rain! Use different colored food coloring. Do the colors mix? What colors do you see?
2. Make different clouds! What happens if the cloud is short and small? What if it's big and tall? Does it take longer to rain?

Additional Resources :

1. <https://www.growingajeweledrose.com/2014/02/rain-clouds-in-jar-experiment.html>
2. <https://funlearningforkids.com/rain-cloud-jar-science-experiment/>