

At Home Science with Your Toddler



It is never too early to introduce your child to science! Check out these fun and easy science activities that will interest your young child in science and get them to enjoy its wonders at an early age. 😊

Activity 1: Exploding Colors

Materials:

- Pan or dish
- Baking Soda
- Vinegar separated into cups
- Food coloring
- Dropper or pipette

Procedure:

1. Fill the bottom of the pan with a thick layer of baking soda and set aside.
2. Fill about 4 cups with 2-3 tablespoons of vinegar each.
3. Use food coloring to make each cup of vinegar a different color.
4. Help your toddler use the dropper or pipette to pick up the vinegar and drop into the baking soda.
5. Together, watch the colors explode in the baking soda as the vinegar reacts with it!

Activity 2: Play-Doh Erupting Volcano

Materials:

- Play-Doh
- Baking Soda
- Vinegar
- Measuring cup
- Plate or tray
- Food coloring (optional)



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Procedure:

1. Help your toddler build a volcano shape with the Play-Doh. This can be as large or small as you want it to be! Just make sure to make a hole in the top for later.
2. Place the volcano onto a plate or tray (because this can get messy).
3. Pour some baking soda into the hole at the top of your volcano.
4. Pour some vinegar into a measuring cup or any cup that is easy to pour from.
5. Help your toddler slowly pour some vinegar into the top of the volcano.
6. Together, watch the volcano erupt as the vinegar and baking soda react!
7. Optional: color the vinegar with food coloring before pouring it in to see the volcano erupt in different colors!

Activity 3: Fireworks in a Jar

Materials:

- Clear glass or jar
- Cold water
- Cooking oil
- Food coloring

Procedure:

1. Fill the glass or jar about 3/4 of the way with cold water.
2. Fill the glass the rest of the way with cooking oil. Due to the fact that it is less dense than water, it will float at the top.
3. Have your toddler drop food coloring in little by little. After a short wait time, watch the "fireworks" explode in the glass!

Other Resources:

Challenger Learning Center's Previous Videos:

Chemistry at Home with Val (Lava Lamp)

STEAM at Home with Val (Sensory Bottle and Galaxy in a Jar)

STEM at Home with Emma (Magic Milk)

Links to Other Toddler Science Activities:

Edible Slime (safe for toddlers):

<https://www.theyellowbirdhouse.com/11-incredible-edible-play-dough-silly-putty-slime-recipes/>

[https://acrazyfamily.com/edible-slime-](https://acrazyfamily.com/edible-slime-recipes/?utm_medium=social&utm_source=pinterest&utm_campaign=tailwind_tribes&utm_content=tribes&utm_term=656677678_25183958_105553)

[recipes/?utm_medium=social&utm_source=pinterest&utm_campaign=tailwind_tribes&utm_content=tribes&utm_term=656677678_25183958_105553](https://acrazyfamily.com/edible-slime-recipes/?utm_medium=social&utm_source=pinterest&utm_campaign=tailwind_tribes&utm_content=tribes&utm_term=656677678_25183958_105553)



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Various Science Activities for Younger Kids:

https://www.sixthbloom.com/science-activities-for-toddlers/?utm_medium=social&utm_source=pinterest&utm_campaign=tailwind_tribes&utm_content=tribes&utm_term=318484280_9407464_172430

<https://www.thekeeperofthememories.com/color-mixing/>

<https://www.toddlerapproved.com/2019/11/simple-science-projects-for-toddlers.html>

https://gosciencekids.com/1-2years/?utm_medium=social&utm_source=pinterest&utm_campaign=tailwind_tribes&utm_content=tribes&utm_term=855853358_35585362_176782

Other General Ideas:

- Explore magnets with different items around the house
- Create a scavenger hunt either indoors or outdoors; there are many available online also
- Test out whether items sink or float in water
- Play with bubbles and use different tools to make bubbles