Fizzy Moon Rocks

15 Minutes

Moon

P Preschoolers 2.5 - 4 years

What's that fizzy sound? Moon rocks, of course! These moon rocks are fun to make and even more fun to watch dissolve! Kids will love shaping the moon rocks into balls and then watching them slowly dissolve using simple science of baking soda and vinegar.

💡 Learning Outcomes

Domain:
Cognitive

Indicator:
Describing similarities and cause and effect in recurring events

Skills:
Reflecting and Reaching Conclusions

🖌 Materials

- Baking Soda
- Bowl
- White vinegar
- Black, blue and purple food coloring
- Eyedropper/meat baster/squeeze bottle Glitter (optional)

📄 Instructions

Step 1: In a bowl, combine several cups of baking soda and colored water until you have a clumpy texture. Depending on your ratios, you may need to experiment with how much colored water and baking soda you need.

Step 2: Once your mixture is clumpy, start forming small balls. Children will love this part!

Step 3: Place your moon rocks on a sheet and place in the freezer for several hours.

Step 4: Once frozen, place the moon rocks in a shallow bin and slowly drop vinegar from your eyedropper onto the rocks and watch the magic unfold!

👶 Age Adjustments

For older preschoolers: They'll love to experiment with different kinds and amounts of vinegar. Maybe a small amount of malt vinegar dissolves a rock while you need a larger amount of rice vinegar to dissolve the same size rock...why?

For younger toddlers: Younger children will love the cause and effect reaction the vinegar and baking soda have. After you're finished with this activity, you can throw a few space-themed objects in and dilute the vinegar with more water to make a sensory bin!

❓ Playful Questions

- Have you ever seen a rock from the moon?
- What would happen if we tried this experiment on a rock we find outside?
- What do you think would happen if we only put one drop of vinegar on our rock and let it sit for a while?
- Have you ever seen a meteorite land on earth?

🚂 himama