

Color and Water Bead Size

Introduction

Water beads are toys that start small and grow bigger when water is added. When I grow up, I want to fill my pool with water beads and then jump in.

Question and Prediction

Does the color of the water bead affect how much water they can hold?

Hypothesis: I think purple will hold the most water.

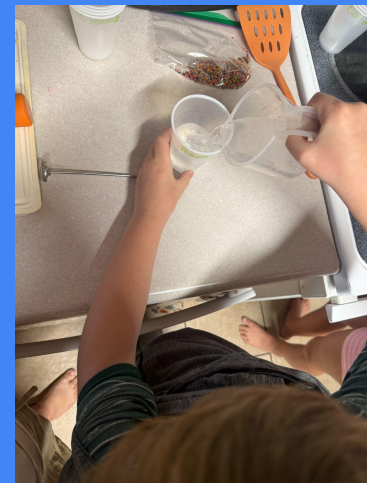
Materials and Methods

Materials

- Purple water beads
- Clear water beads
- Yellow water beads
- Water
- Plastic cup
- Ruler

Methods

1. Get five beads of three colors
2. Using a ruler, measure the dry beads
3. Place dry beads in a plastic cup
4. Add water to plastic cup
5. Let beads grow for at least four hours
6. Remove beads from water
7. Measure beads with ruler
8. Compare dry and wet sizes



Adding water



Measuring dry beads.

Results

	Starting Diameter	Ending Diameter	Change in Diameter
Purple	10mm	45mm	35mm
Clear	11mm	44mm	33mm
Yellow	11mm	44mm	33mm

Beads were soaked in 200mL water for 4.5 hours



Measuring wet beads. Photo by C.Provencio

Interpretation and Discussion

Did the color make a difference? Yes ☒

No ☐

Which color grew the most? Lighter ☐

Darker ☒

I need less water beads to fill my pool if I use dark ones.

Implications and Ideas for Future Research

How big can orbeez really get?

How did Orbeez even become a thing?

I would want to experiment with how big can they really get and how long will they grow for?

References

None