



HOMESCHOOL SCIENCE EXPERIMENT

TESTING THE ABSORBENCY OF DIFFERENT DIAPER BRANDS



QUESTION: Which diaper brand is the most absorbent?

HYPOTHESIS: I think _____ will absorb the most liquid.

MATERIALS

- At least 3 different diaper brands
- Measuring cup
- Water
- Food coloring (optional)
- Scale (that measures in grams)
- Paper towels
- Tray or large baking sheet
- Timer or clock
- Notebook or lab sheet

PROCEDURE

- 1 Place a clean, dry diaper on a tray. Make sure it is open and flat.
- 2 Weigh the diaper. Record the weight in the data table.
- 3 Measure 250 mL of water. (Add a few drops of food coloring if you want.)
- 4 Slowly pour the water into the center of the diaper.
- 5 Start the timer. Let the diaper sit for 5 minutes.
- 6 After 5 minutes, place a paper towel on top of the diaper and gently press. Do not rub.
- 7 Weigh the diaper again. Record the weight.
- 8 Calculate how much liquid the diaper absorbed.
 $\text{Absorbed (mL)} = \text{Final Weight} - \text{Initial Weight}$
- 9 Repeat steps 1–8 for each diaper brand.

DATA TABLE

Diaper Brand	Initial Weight (g)	Final Weight After 5 Minutes (g)	Liquid Absorbed (g or mL)	Notes (leaks, wet feel, etc.)
1.				
2.				
3.				
4.				

ANALYSIS

1. Which diaper absorbed the most liquid?

2. Which diaper absorbed the least liquid?

3. What did you notice about the diapers?



CONCLUSION

1. Was your hypothesis correct? Why or why not?

2. If you could test another brand or change one thing about this experiment, what would you do?



SAFETY FIRST: Be careful when pouring water. Clean up spills right away. Wash your hands when you are done.