

Lab #1 The Quicker Picker Upper

Group: _____, _____, _____, _____

Title: The Quicker Picker Upper

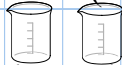
Problem: Which brand of paper towel is the most absorbant?

Purpose: To design and carry out an investigation that will determine which brand of paper towel will absorb the most water.

Hypothesis: _____ will absorb more water than the other 4 brands tested.

Materials:

2 beakers (500ml)



1 graduated cylinder



1 stop watch



water



paper towel samples (5 brands x 3 each)



scissors



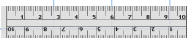
writing utensil (pen, pencil, marker)



1 pair tongs



ruler



Procedure:

- 1. Assign Roles/duties**
- 2. Gather materials; beakers, graduated cylinder, scissors, ruler, water, timer, tongs,**
- 3. Measure paper towels to make sure they are all the same size 8x11**
- 4. Cut paper towels**
- 5. Label paper towels with brand**
- 6. Make a data table to record data**
- 7. Make observations of paper towels**
- 8. Record observations in notes**
- 9. Evaluate and rewrite hypothesis statement if needed.**
- 10. Pour 50ml of water in graduated cylinder**
- 11. Transfer water from graduated cylinder to empty beaker**
- 12. Fold paper towel - be consistent with folded sizes**
- 13. Time Keeper starts stop watch when papertowel touches water**
- 14. Time for 30 seconds**
- 15. Use tongs to lift paper towel and hold over beaker for another 30 seconds**
- 16. Set wet paper towel aside**
- 17. Record observations**
- 18. Transfer water remaining in beaker from paper towel to graduated cylinder and measure**
- 19. Record amount of water remaining**
- 20. Subtract the amount remaining from 50 ml to calculate how much water was absorbed**
- 21. Record the amount of water absorbed in (ml) in data table**
- 22. Repeat steps 10 - 21 for each sample (3 each brand) until all trials are completed for each brand of paper towel**
- 23. Clean UP!**
- 24. Calculate average amount of water absorbed for each brand tested.**
- 25. Record in data table**

Data:

Variables

Independent Variable: Brand of Paper Towel

Dependent Variable: Amount of water absorbed

Constants: Amount of water used each trial, paper towel size, time exposed, type of fluid, group roles,

Control: None

Paper Towel Absorbency

Paper Towel Brand	Water Absorbed in ml			Average
	Trial 1	Trial 2	Trial 3	
School	10	6	10	8.67 ml
Bounty	20	26	29	25.00 ml
Brawny	17	28	29	24.67 ml
Viva	30	29	34	31.00 ml
Scott	19	13	28	20.00 ml
Generic	21	20	27	22.67 ml

Paper Towel Absorbency

