

WATER OLYMPICS

"HOW MANY DROPS OF WATER
WILL FIT ON A PENNY?"

Question: How many drops of water can you fit on a penny?

Materials: penny, eye dropper, soap

Part 1:

Carefully count the number of drops. Make sure you don't touch the penny with the dropper! How many drops did you fit?

Part 2:

Use your finger to smear a drop of soap on the penny. Repeat the experiment, counting the drops of water until it overflows.

Make sure you put the penny in the "soapy" jar when you finish!

PAPERCLIP FLOAT



Use one of the bent paperclips to slowly lower a paperclip onto the surface of the water.

How many paperclips can you get to float on the surface before you break the surface tension?

R-MAZINE

EVENT:

H₂O RACE

87 MAX CANTU

QUESTION: How CAN YOUR WATER DROP BE GUIDED THROUGH THE MAZE?

PROCEDURE:

- ② PLACE A WATER DROP TO FIT INSIDE THE CIRCLE ON YOUR PAPER.
- ③ MOVE THE WATER DROP THROUGH THE MAZE WITH A TOOTHPICK. IF THE DROP SEPARATES, GO BACK AND COLLECT IT BEFORE YOU CONTINUE.
- ④ TIME HOW LONG IT TAKES TO MOVE THE DROP THROUGH THE MAZE.

AMAZING WATER RACE



START

Make water droplet this size

FINISH

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Fold'n Float

MAL CANTY '87

• **QUESTION:** How many times can you FOLD a 5"x5" piece of ALUMINUM FOIL UNTIL IT SINKS? HOW SMALL CAN YOU GO?



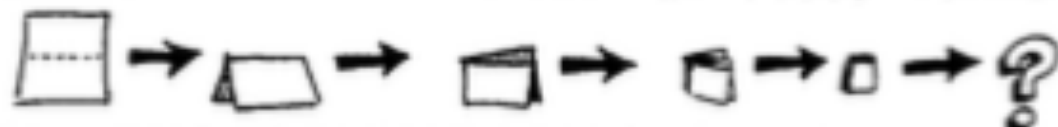
• **THINGS YOU NEED:** 1 BOWL ($\frac{2}{3}$'s full of H_2O), 1 5"x5" piece of aluminum foil

1. FLOAT THE 5"x5" FOIL IN THE WATER.

2. PREDICT THE NUMBER OF FOLDS THAT CAUSE THE FOIL TO SINK.



3. FOLD IT IN HALF - (THAT'S YOUR 1ST FOLD) - PLACE IT IN THE WATER. DOES IT FLOAT?



4. IF SO... FOLD IT IN HALF AGAIN - (THAT'S YOUR 2ND FOLD) - DOES IT FLOAT?

5. KEEP FOLDING THE FOIL IN HALF AND TESTING WHETHER OR NOT IT FLOATS AFTER EACH FOLD.

6. KEEP MAKING THE "SURFACE AREA" OF THE FOIL SMALLER UNTIL IT SINKS.

PAPER TOWEL ABSORPTION

PAPER TOWEL RACE

EVENT: MAX CANTU '87



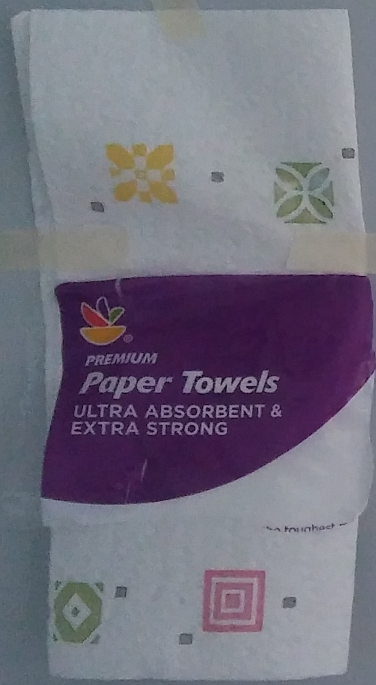
QUESTION: WHICH BRAND OF PAPER TOWELS ABSORBS THE WATER THE FASTEST?

MATERIALS: 1 STRIP - 1" x 8" - OF EACH BRAND OF PAPER TOWEL PER GROUP
1 BOWL OF WATER

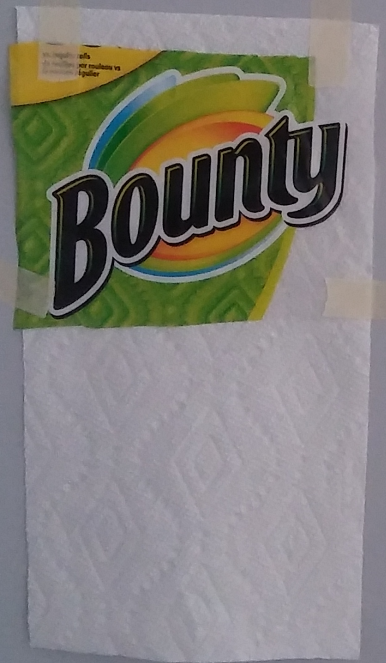
PROCEDURE: PREDICT WHICH BRAND IS THE FASTEST TO ABSORB H_2O .

- MARK EACH STRIP AT THE 10 cm MARK.
 - PLACE 1 STRIP FROM EACH OF THE TEST STRIPS INTO A BOWL OF H_2O ALL AT THE SAME TIME.
 - THE WATER REACHES THE 10 cm MARK ON WHICH STRIP FIRST?
 - COMPARE THE PREDICTION WITH THE ACTUAL RESULTS.
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Premium
Giant Brand



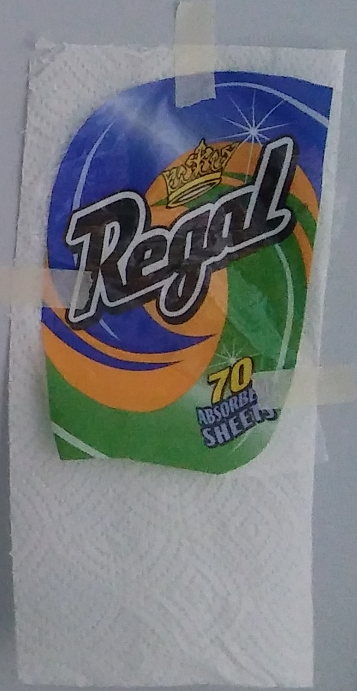
Bounty



Giant
Paper Towels



Regal (\$1)



- WATER - STRETCH -

Question: How far can you stretch the drop of water before it breaks?

Procedure: Drop FIVE drops of water into the CENTER of the start circle. Use a toothpick to drag the water in a straight line. Measure the distance the water reaches.

