EASTER EGG SCIENCE

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WHAT EFFECT DOES VINEGAR HAVE ON DYEING EGGS?

MATERIALS

6-7

- 3 cups
- 1 teaspoon
- 1 slotted spoon
- 3 white eggs (previously hard boiled)
- 1 bottle of food colouring
- 1 bottle white vinegar
- 1 paper towel

15 MINS

PROCEDURE

Step 1
Fill each cup with equal amounts of water and food colouring (20-30 drops recommended)

Step 2
Label the 1st cup '1tsp vinegar' the 2nd cup '2 tsp vinegar' and the last cup 'control'. Add the corresponding amount of vinegar to each cup and none in the 'control' cup

Step 3
Using the slotted spoon, place a boiled egg in each of the cups

Step 4
Wait a few minutes and then remove the eggs using the slotted spoon. Place them on a paper towel to dry

Step 5
Observe each egg- what do you see. Which is the brightest? Is this what you expected to happen?

CLEAN UP YOUR EXPERIMENT OR DYE MORE EGGS WITH OTHER COLOURS!

PURPOSE & SCIENCE OUTCOMES

- The egg that was dyed in the cup with 2 tsp of vinegar should be the brightest. This is because food colouring is acid-based and vinegar is acidic.
- The food colouring bonds to the egg more easily because there is more H+ atoms in the water
- Try dyeing eggs in a mixture of water, food colouring and vegetable oil. What might happen?

ANY QUESTIONS? REACH OUT @SUPERNOVAATDAL