-JR-SCIENTISTS STRAMBERRY DNA This strawberry DNA extraction lab is perfect for your budding

This strawberry DNA extraction lab is perfect for your budding scientist to experiment with in the kitchen.

INSTRUCTIONS:

STEP 1: Chill the alcohol in the freezer. **STEP 2:** Remove the green stems from the strawberries and add the strawberries to a zip lock bag. Make sure to seal the bag well and then squish the strawberries into a pulp.

STEP 3: Add 1 tablespoon of dish soap, a teaspoon of salt, and 1/3 of a cup of water to the bag. Shake the bag to mix well.

Coffee filters Pipette Test tube Strawberries Dish Soap Salt Plastic zip bags Rubbing alcohol

SUPPLIES

STEP 4: Line the test tube with the coffee filter.

STEP 5: Pour the strawberry liquid onto the coffee filter and then wait for the liquid to filter into the test tube.

STEP 6: Now add a one inch layer of chilled alcohol to the test tube. Watch as a clear viscous material rises to the top of the alcohol. This is the strawberry DNA!

THE SCIENCE

Each individual cell in an organism has a copy of the DNA pattern used to reproduce that cell. Usually, the DNA is combined within the cell, so you can't see it. But when you create a mixture of dish soap and salt and mix it with the strawberry pulp, it helps break down the strawberry cells into individual parts.

www.littlebinsforlittlehands.com









Strawberry DNA Observations. Use this worksheet to process and evaluate your work.
Were you able to extract the strawberry DNA?
Can you see actual DNA with your eyes?
What does each ingredient do?
Detergent?
Salt?
Alcohol?
What did you learn about DNA?