

Strawberry DNA Extraction Lab

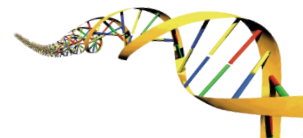
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Name: _____ Period _____ Date: _____

Video Link: <https://www.youtube.com/watch?v=67KXatgoNKs&t=236s>

The Sci Guys: Science at Home - SE2 - EP15: Extracting Strawberry DNA



Materials

Rubbing Alcohol	Dish Soap	Strainers	Tweezers
Strawberries	Measuring Bowls	Funnels	
Salt	Beakers	Bags	

Directions:

1. **As a whole table group**, mix 2/3 cup water (158ml), 1 teaspoon salt, 2 tablespoons of dish soap
2. Place 3-4 strawberries in the bag, Measure 3 tablespoons of solution and put that in the bag. Mash for 2 minutes
3. Strain the mashed strawberries into the smaller beaker
4. Fill your larger beaker with _____ml of rubbing alcohol. Gently pour the solution into beaker with the strawberry solution. HINT: Pour along the side of the beaker wall slowly.
5. Use the tweezers to remove the DNA

6. *Questions*

1. What does mashing the strawberries and treating them with detergent do to their cells

2. What part of the cell did the DNA come from

3. Why can't you see the double helix structure of DNA

4. A person cannot see a cotton thread 100 feet away, but if you wound thousands of threads together into a rope, it would be visible at some distance. How is this statement an analogy to our DNA extraction

5. Was this really DNA? Explain what you think and why:

6. List and describe one thing that you found surprising or interesting that you learned from this lab

