

Strawberry DNA

Subjects: • Biology • Chemistry • Biotechnology

Time: 45-60 minutes

Skills: • Design Thinking • Problem Solving • 2D design • 3D design •

Approx. Cost: Medium

Lesson # 19

Learning Objective/Goal:

- Understand the basic structure and function of DNA.
- Learn a simple method for DNA extraction.
- Develop laboratory skills and scientific inquiry.

Materials Needed:

- Fresh strawberries (2-3 per group)
- Dish soap (1 tablespoon per group)
- Table salt (1/2 teaspoon per group)
- Isopropyl alcohol (**Chilled**, 1/2 cup per group)
- Ziplock bags (1 per group)
- Coffee filters (1-2 per group)
- Clear plastic cups or beakers (2 per group)
- Plastic pipettes or droppers
- Measuring cups and spoons
- Stirring rods or spoons

NGSS Standards:

- 2-LS4-1
- 3-LS1-1
- 3-LS3-1
- 4-LS1-1

Background:

Strawberries are soft and easy to crush. They also have a lot of DNA, which makes them perfect for this experiment.

Role of Each Material:

- The soap helps break open the cells to release the DNA.
- The salt helps separate the DNA from other parts of the cell.
- The cold alcohol makes the DNA come out of the liquid so we can see it. The colder the alcohol, the better it works, so keep it in the freezer or on ice.

This is why strawberries are great for extracting DNA!

Strawberry Dna Extraction Lesson Plan Answers

JG Myers



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