



STEAM Lab Supply List

Cell Biology & Genetics

Title

DNA Extraction

Subject

Biology

Learning Objective

Describe the components of DNA and its function.
Learn to extract DNA from strawberries.

Materials Needed

- 2 Strawberries (fresh or frozen)
- 1 cup Water
- 2 tsp Salt
- 1/2 cup Ice-cold isopropyl alcohol (place in freezer the night before)
- 2 Tbs Dish soap
- 1 Gallon size zip-loc bag (must seal)
- 1 Sandwich size zip-loc bag (must seal)
- 1 Stir rod or popsicle stick
- Measuring spoons
- Measuring cup
- 3 Plastic cups (clear)
- 2 Coffee filters
- Rubber band

List is per student participating; Guardians or organizations should have supplies set up and available prior to the beginning of each session. Items can be sourced from local vendors e.g. Grocery Stores, Dollar Tree, Target, Walmart, etc. as well as from Amazon. The following additional items are recommended but not required: Goggles, plastic table covers and disposable gloves.

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