

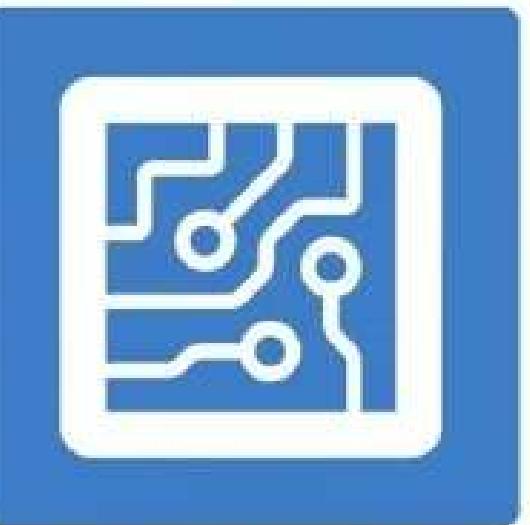
# THE YOUNG WOMEN IN SCIENCE PROJECT

BY JIMENA FURIE

# WHAT IS STEM?



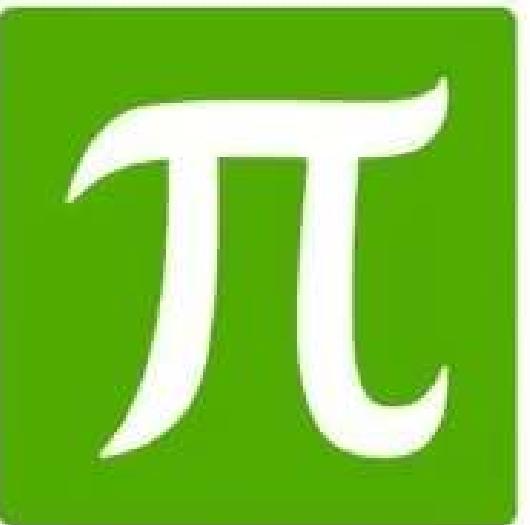
SCIENCE



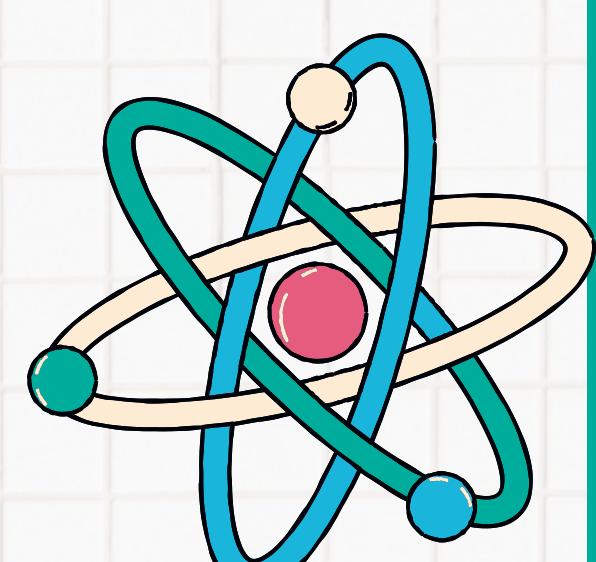
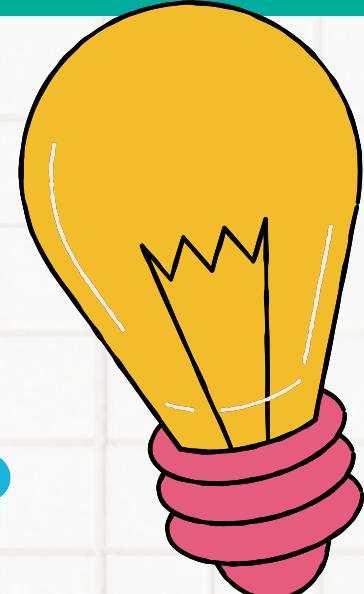
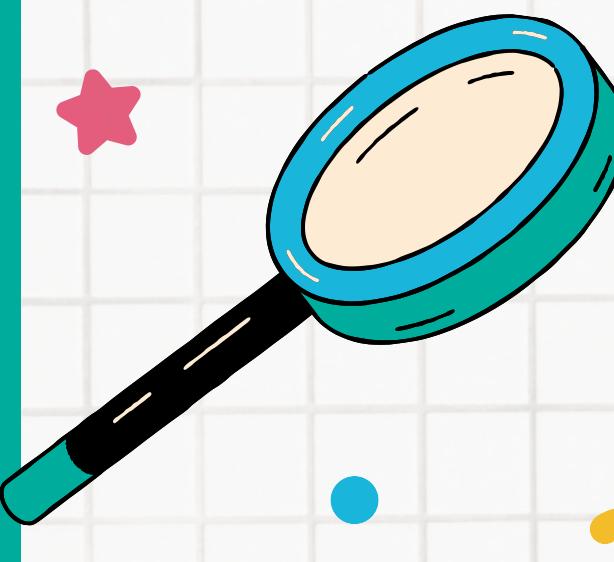
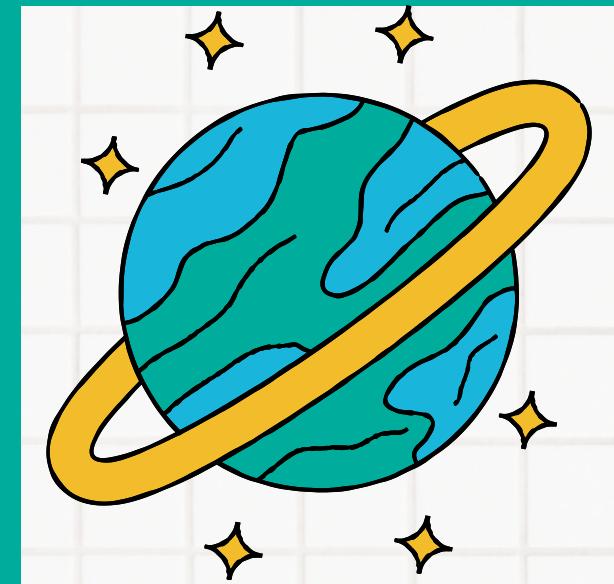
TECHNOLOGY



ENGINEERING



MATHEMATICS

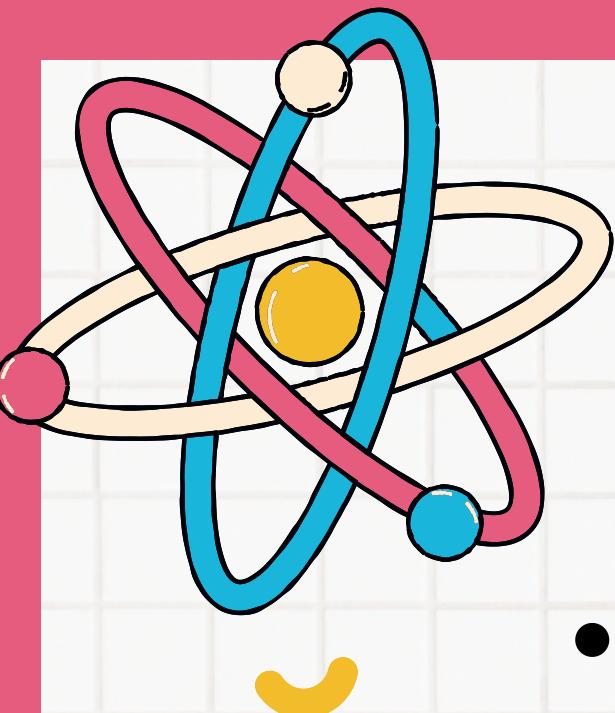


# 01

# STRAWBERRY

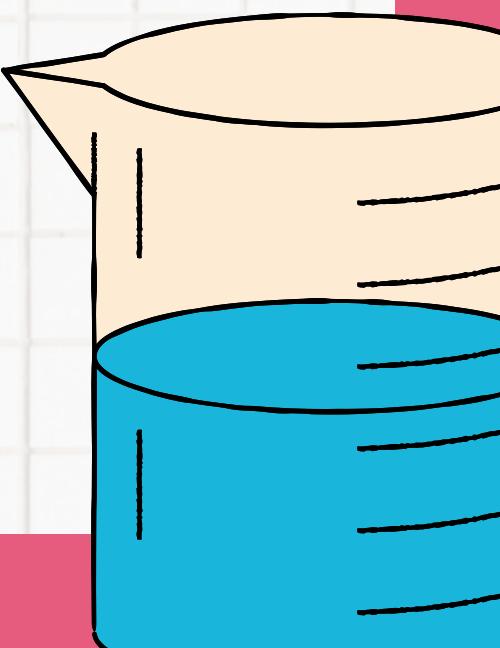
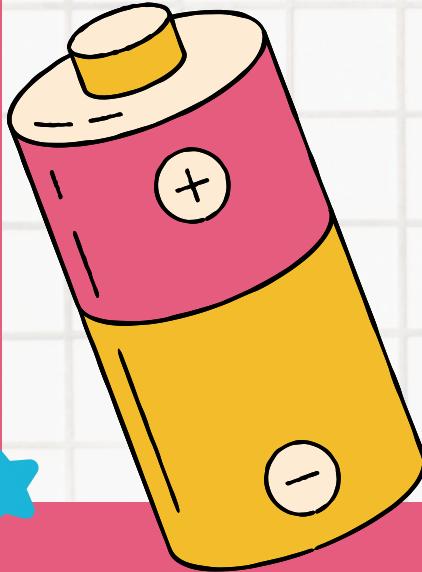
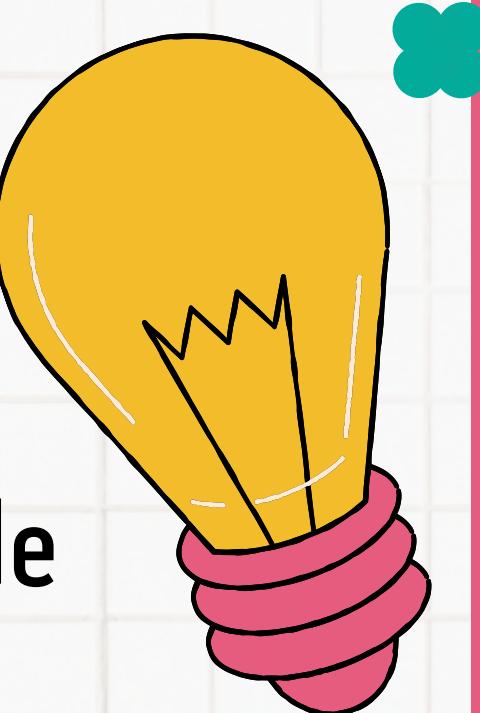
# DNA EXTRACTION

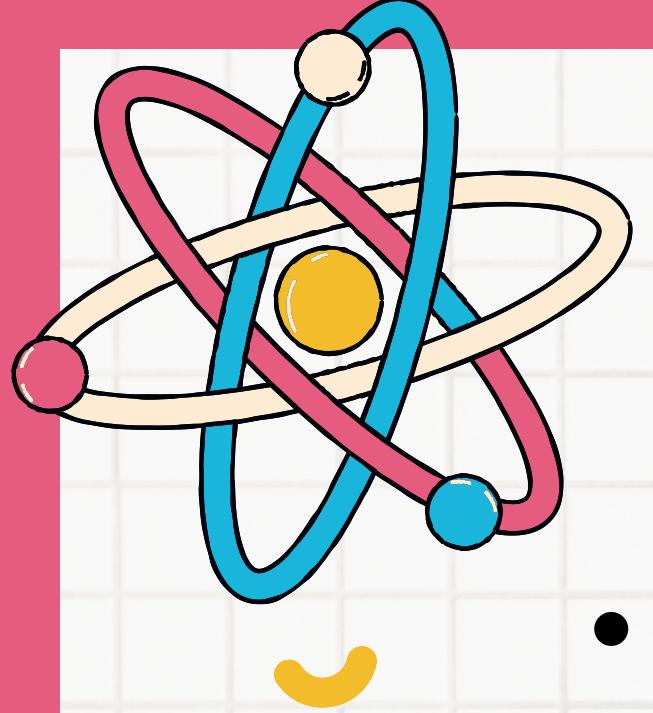




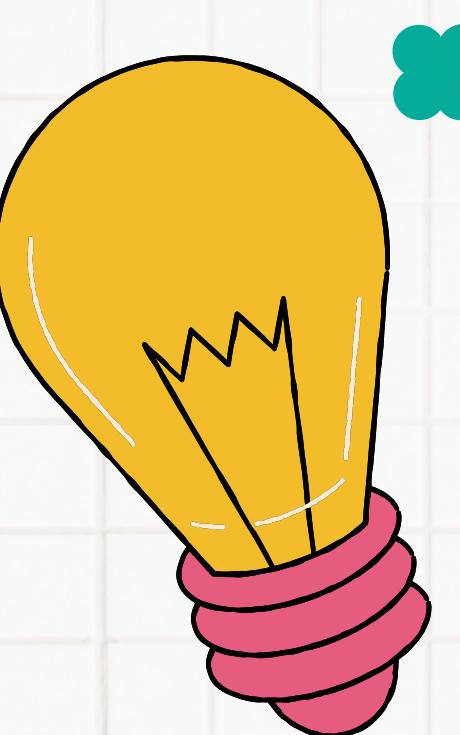
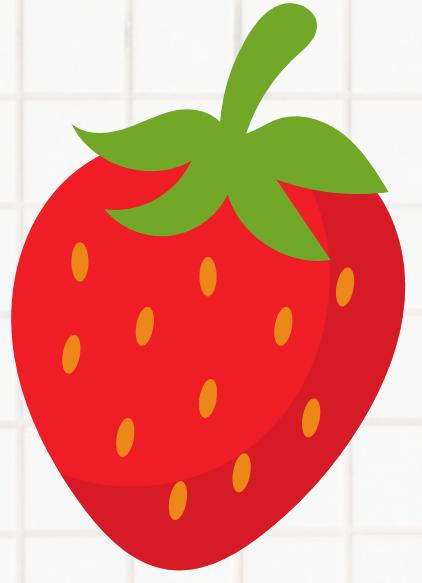
# WHAT IS DNA?

- DNA or Deoxyribonucleic acid is sort of like a blueprint inside your cells that has all the information your body needs.
  - It decides things like eye color, hair color, height, and more.
  - It can be found in every cell of every living thing, even strawberries!

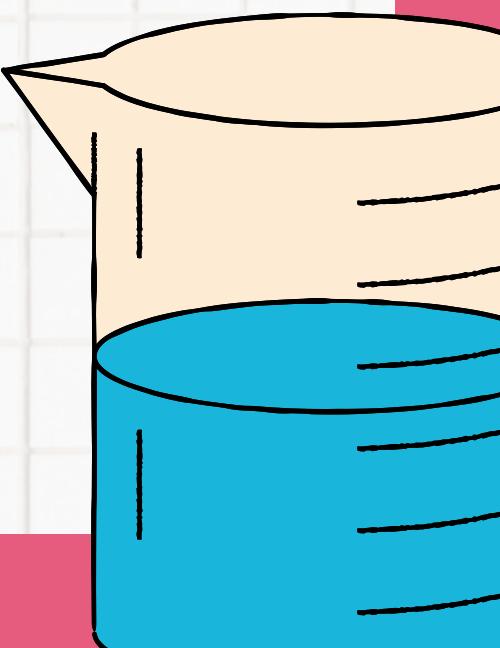
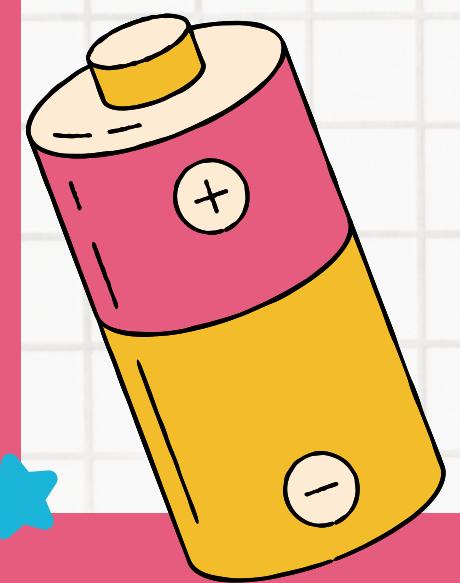




# MATERIALS

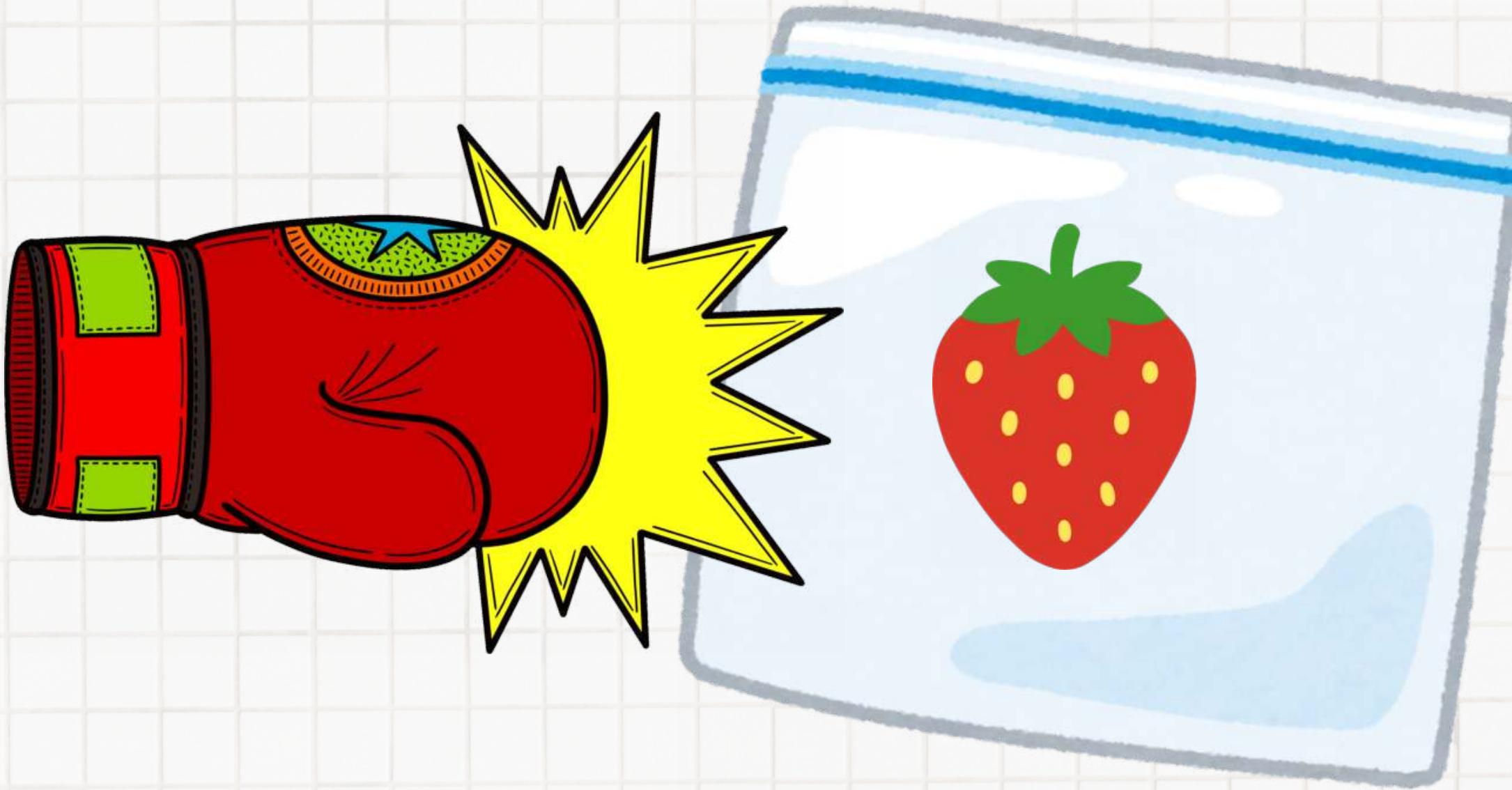


- Strawberry
- DNA Extraction Buffer (Water, Dish soap, and salt)
- Coffee liner
- Isopropyl Alcohol
- Ziplock Bag
- Plastic Cup
- Wooden Stick



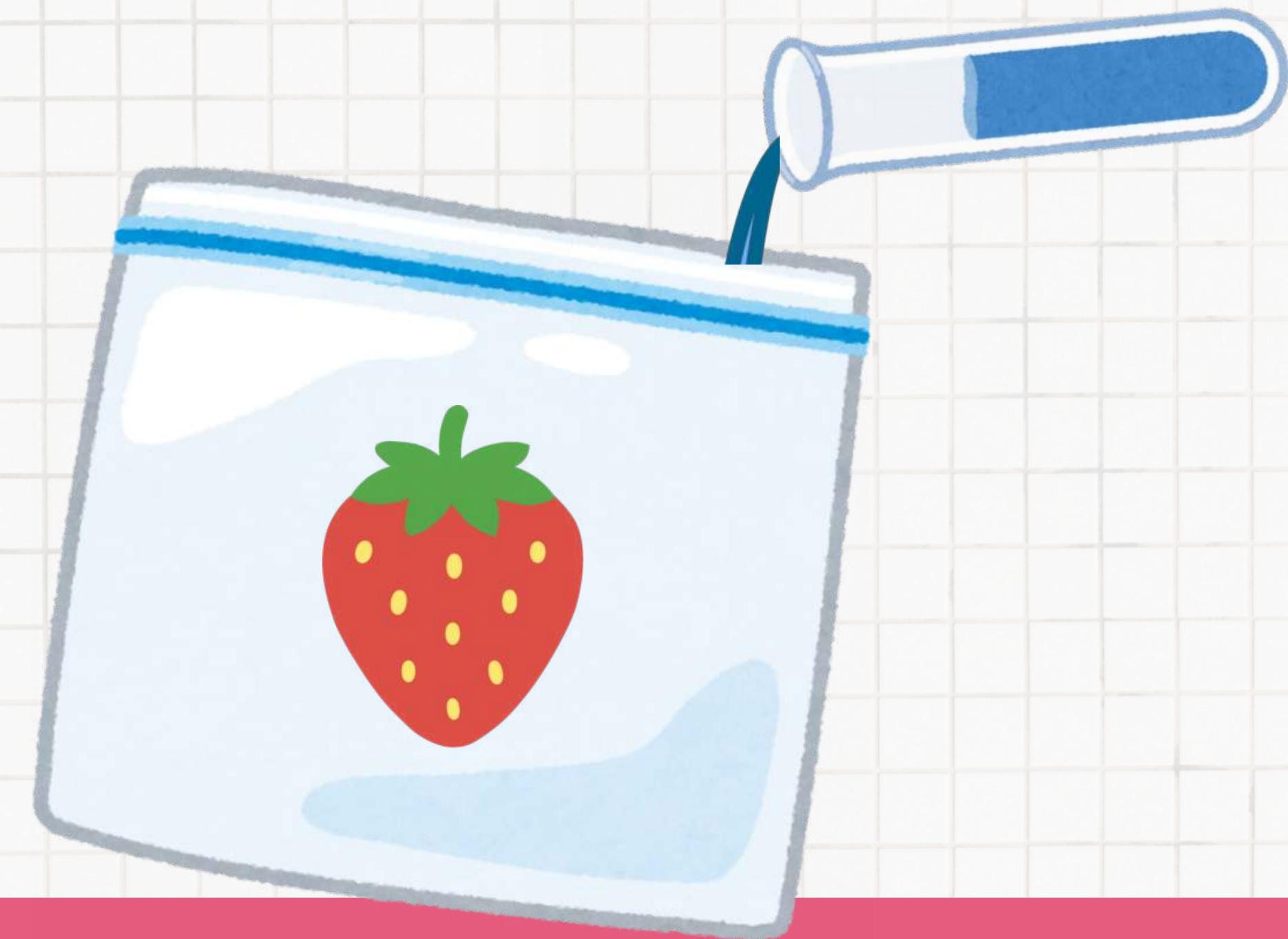
# STEP 1

- Place one strawberry in a bag and mash it



# STEP 2

- Add the DNA Extraction Buffer and mix gently



# STEP 3

- Pour the mixture through a coffee filter into the plastic cup



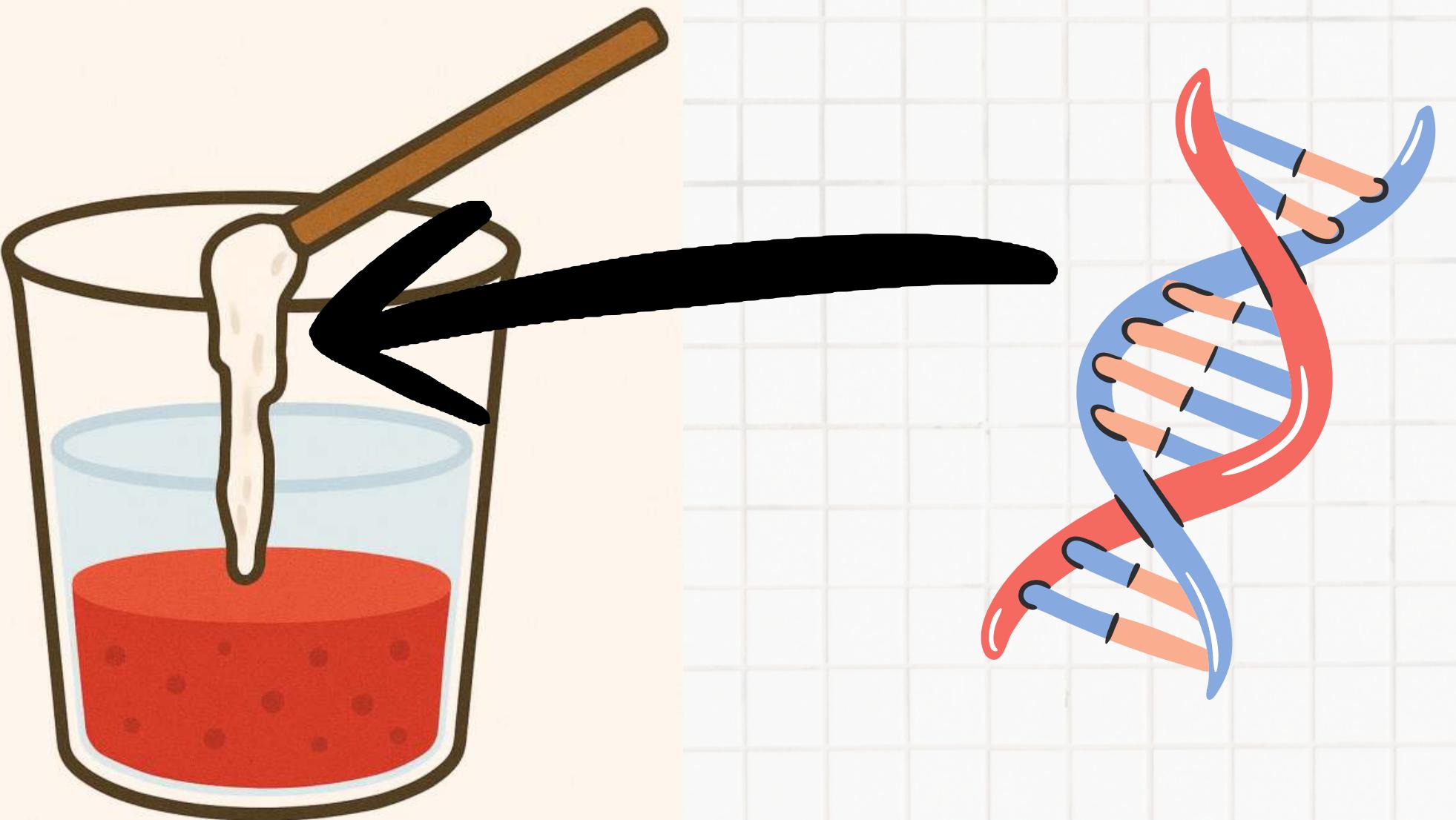
# STEP 4

- Slowly pour the isopropyl alcohol into the side of the cup



# STEP 5

- Watch the DNA form and separate in the cup!
- Spool the DNA with the wooden stick



# DISCUSSION QUESTIONS

- What did the DNA look like?
- Did you expect DNA to look like this?
- What important roles does DNA play in our bodies?