

# LEARN HOW TO EXTRACT DNA

DNA stands for deoxyribonucleic acid - a big name for a molecule with an important job. DNA contains instructions for animals and plants looks and functions. You can find it inside cells, and using supplies from around your house, you can even break down cells and see it!

## -WHAT YOU NEED-

strawberries	table salt	rubbing alcohol	coffee filters
plastic bags	ice cubes	measuring cups	cup or bowl
water	dish soap	stir stick or straw	



## STEP 1: PREPARE STRAWBERRIES

- Remove leaves
- Seal strawberries in a plastic bag
- Smash strawberries for 2 minutes
- Chill rubbing alcohol on ice

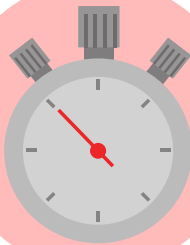
## STEP 2: BREAK DOWN CELLS

- Mix 1 tsp of salt, 2 tsp of dish soap, and 2/3 cup of water in a cup or bowl
- Add 2 tsp of the mixture to the plastic bag with strawberries and smash for 1 minute



## STEP 3: CHILL AND WAIT

- Cover cup or bowl with a coffee filter and pour strawberry mixture over it
- Add chilled rubbing alcohol to strawberry liquid in cup until it forms a 1 inch layer
- Wait and DO NOT stir



## STEP 4: DNA EXTRACTION

- Use a straw or stir stick to pull the white cloudy substance that appears out of the cup - this is strawberry DNA!

**Try extracting the DNA from bananas, kiwis, or mangoes too!**

