



# Strawberry DNA Extraction



## What you will need



2 strawberries    Measuring cup    Measuring spoons    1 Plastic bag    Salt    Dish soap    Water  
1 Turkey baster/pipet/wooden stirrer/chopstick    2 clear cups/containers    Rubbing alcohol/nail polish  
Coffee filter/cheese cloth

**Step 1** Place your rubbing alcohol/nail polish in the fridge or on ice for about 30 min prior to starting.



**Step 2** Take 2 strawberries and cut off the leaves. Place them in the plastic bag and close it making sure to get all the air out. Smash the strawberries to a pulp!



**Step 3** In one of your clear containers, add 2 tsp of your dish soap and ½ tsp salt. Then add ½ cup of water and stir the mixture.



- What do you think each ingredient does? Check out the video linked below to find out!

**Step 4** Add about 2 tbs of the solution from Step 2 to your plastic bag with the strawberries. Make sure to get all the air out of the bag when you zip it closed. Mix the solution and strawberries together.



**Step 5** Grab your other clear container and place your coffee filter/cheese cloth on top of it. Pour the strawberry solution over the filter into the container. The filter should catch all the big chunks and you should just have a liquid in the container.



**Step 6** Take the rubbing alcohol/nail polish from the fridge and pour about 2 tbs into the filtered strawberry solution.



- What is the role of the alcohol in the solution? Check out the video linked below to find out!

**Step 7** You should be able to see the DNA separate out. It will look like a white cloudy substance on the top of the solution. You can take your turkey baster/pipet/wooden stirrer/chopstick to grab the DNA from the solution.



**Congratulations you have successfully extracted DNA from a strawberry! If you enjoyed this experiment then you may be interested in learning more about genetics and a career in the genetics field.**



QR code to YouTube video instructions  
Document created by Anmarie Fearing