



STRAWBERRY DNA

TAKE & MAKE KIT

Getting Started

Supplies Needed:

- Water
- Dish soap
- Salt
- Rubbing Alcohol
- Strawberry
- Ziploc bag
- Paper towel
- A glass container
- Rubber band
- One teaspoon and a half teaspoon to measure
- A skewer or pencil



Steps

1. Put 1 cup rubbing alcohol in the freezer for at least 30 minutes.
2. Put the strawberry in the ziploc bag, seal the bag, and mash up the strawberry (make sure to mash near the bottom of the bag!).
3. Add 2 tsp. of water and 1/4 tsp. of dish soap to the glass container. The dish soap helps to open up the strawberry cells releasing the DNA.
4. Add a pinch of salt. This helps the strands of DNA to clump together, making them visible to the naked eye. Stir the mixture.





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Steps continued

5. Add the extraction solution to the mashed strawberry and squish it all together. Again, remind kids to keep the mixture towards the bottom of the bag away from the seal. This should take a couple minutes.

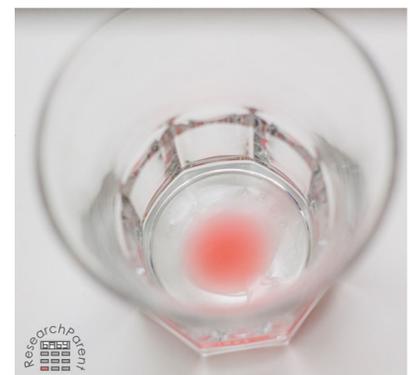


6. Use a rubberband to secure a paper towel to the top of the glass, and push down on the paper towel to create a well in the middle.



7. Pour the strawberry mixture onto the paper towel and leave for about 3 minutes.

8. After a few minutes, take off the paper towel and strawberry mixture. You should have some drops in your glass (not much is needed).



9. Remove the rubbing alcohol from the freezer and add it to your solution.

10. Observe if any DNA starts moving into the alcohol on it's own. Then, take a skewer or other pointy tool like a toothpick or pencil and pick up your DNA!



You're all finished!

Thank you for participating in our Take and Make Craft program! We'd love to see a picture of your completed craft. If you would like to share with the community on our social media, please email photos to your branch or post using the hashtag #VIRLfan