## **Strawberry DNA Extraction**

## Materials

- 1/3 cup of warm water
- ½ tsp of salt
- 1 tbsp of dish soap
- Ziploc Bag
- Golf ball sized strawberries (1-5)
- Chilled 70% Isopropyl Alcohol (Rubbing Alcohol)
- Mesh Strainer or Cheese Cloth

**PRECAUTIONS:** DO NOT DRINK ANY OF THE SOLUTIONS MADE IN THIS ACTIVITY OR EAT ANY FRUITS THAT HAVE BEEN IN CONTACT WITH ANY OF THE SOLUTIONS AND/OR ISOPROPYL ALCOHOL. MAKE SURE TO HAVE A RESPONSIBLE ADULT PRESENT.

## **Procedure**

- 1. Place the rubbing alcohol in the freezer so that it can chill.
- 2. Completely mix the water, salt, and dish soap until the salt and soap is fully dissolved.
- 3. Cut the stems off of the strawberries, place them inside the Ziploc bag, add about 3 tbsp of the salt and soap mixture, and seal the bag (making sure to get as much air out as possible.)
- 4. Mash up the strawberries really well until it is all pulpy and no large pieces remain.
- 5. With your metal strainer or cheesecloth, strain out all the liquid into a separate clear cup. Discard any solid pieces of strawberry that remain.
- 6. Carefully pour the rubbing alcohol against the side of the glass containing the strawberry liquid so that the rubbing alcohol sits on top.
- 7. Watch as the DNA strands—the white, stringy fibers— precipitate out into the rubbing alcohol! Mixing the strawberry-alcohol solution may yields better results as well.