



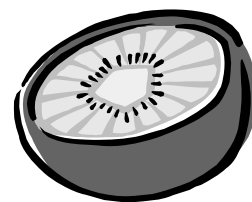
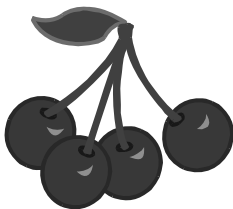
# DNA Extraction From Plants



- 1 Pour 5 mL of soap buffer into a tube of well mashed fruit. Close the tube and shake well.
- 2 Label the tube with your partner's initials and your own.
- 3 Incubate the tube in a 60°C water bath for 5 - 15 minutes.
- 4 During the incubation, Partner 1 can get: a beaker full of ice and a tube of ice cold ethanol. Immediately place the ethanol tube in the beaker of ice.

Partner 2 can get: an empty beaker, a coffee filter, a clean 15 mL tube and a dropper.

- 5 Remove the reaction tube from the waterbath.
- 6 Carefully filter the fruit and soap solution through the coffee filter and into the empty beaker.
- 7 Pour the filtered fruit solution into the clean 15 mL tube.
- 8 While holding the tube on an angle, carefully drizzle 3 mL of ice cold ethanol on top of the mixture of soap and cells.
- 9 Let the reaction sit for 5 minutes and watch as a cloudy precipitate forms.
- 10 Use a glass rod to carefully spool the DNA from the ethanol layer.



*Did the DNA from the plant cells look the same as or different from the DNA extracted from the bacteria cells?*

*What did the DNA look like under the microscope? Could you see the double helix structure?*