

Berry Full of DNA**Standard(s):** 3.2, 3.3, 3.7**Objective(s):**

1. Students will extract DNA from a strawberry.
2. Students will make observations, design experiments, record and analyze data, make models, and infer their findings.

Procedure:

1. Lecture discussion:
 - a. Briefly discuss DNA
 - b. Discuss protein synthesis
 - c. Discuss DNA extraction experiment and basic setup
2. Use the textbook, internet, or various other sources to find information on the following questions relating to the DNA extraction experiment:
 - a. What is DNA?
 - b. What are genes?
 - c. What are chromosomes?
 - d. Where can we find DNA in humans?
 - e. Why might a scientist want to study the DNA of strawberries? List two reasons.

Find the definitions to the following DNA vocabulary:

- a. Deoxyribonucleic Acid (DNA)
 - b. Nucleotide
 - c. Nitrogenous base
 - d. Pyrimidine
 - e. Purine
 - f. Double Helix
 - g. DNA replication
 - h. DNA polymerase
 - i. Ribonucleic Acid (RNA)
 - j. Transcription
 - k. Translation
 - l. Codon
 - m. Anticodon
 - n. Mutation
 - o. Mutagen
3. After the textbook, internet, or various other sources research is completed we will have a class discussion on what we have found

Follow-up Activities:

1. Students can look at the DNA in a microscope.