

Name:

Propagating a Plant Lab

Introduction:

Cloning plants can be a relatively simple process. Cloning is the process of asexually producing a group of cells (clones), all genetically identical, from a single ancestor. In this case you will use one single ancestor (this Pothos plant) and asexually producing several genetically identical offspring.

Prediction

1. How long do you think it will take for asexual reproduction to occur in a Pothos plant?

Procedures:

1. Cut around the leaf leaving the node attached and a small amount of stem on either side.
2. Carefully place stem of the plant into a cup of water.
3. Label the cup with name, period, and date.
4. Place the cup on a well-lit shelf, in a room with proper ventilation.
5. Check each class period for growth and to fill water.
6. Record in data table.
7. Plant when roots have formed.
8. Wash hands

Data:

Date	Picture	Observations

Analysis:

1. What type of reproduction did this Pothos plant undergo?
2. How will the DNA and genetic information of the daughter plants compare to the DNA and genetic information of the parent plant?
3. Why would asexual reproduction be beneficial to these plants?
4. When might sexual reproduction be beneficial to these plants?
5. What are some variables that could be changed for this lab?
6. Write a hypothesis for changing one of those variables.