

# Instructional Scenario



## Propagation of the Jade Plant

**Course/Duty Area:** Floriculture: Applying Science to Plant Production

**Scenario:**

Ciara is a high school senior who has worked at a local nursery and garden center, *Vivacious Plants*, since last fall. She is currently enrolled in Floriculture at her high school and is using this placement opportunity as her Supervised Agricultural Experience (SAE).

A customer approaches Ciara, asking about a Jade plant that she has at home. The customer describes how the plant is becoming very large and growing out of its container. The customer wants to know how to propagate new plants for her family and friends. She asks Ciara if she can take cuttings from the plant? Ciara explains to the customer that she could take leaf and/or stem cuttings from the plant. Ciara then describes the process for taking a stem cutting.

**Big Question:**

How do you propagate houseplants asexually?

**Focused Questions:**

- How do you propagate the Jade plant using a stem cutting?
- How do you propagate the Jade plant using a leaf cutting?
- How do you propagate by division or spiderettes (spider plant)?
- What are other methods of asexually propagating plants?

**Student Project or Outcome:**

A manual on how popular indoor plants are propagated

**Project-Based Assessment:**

Students, with a partner, will assemble a booklet or manual on how to propagate 20 common houseplants. The booklet will list the methods and include detailed descriptions and images of each houseplant.

**Teacher Resources:**

- Steil, Aaron. (2023). [How to Propagate Houseplants by Stem Tip Cuttings](#). Iowa State University.
- [Propagating spider plants: how to root spiderettes](#). Plantura Magazine.
- Vanzile, Jon. (2022). [How to Propagate Plants Using Stem Cuttings](#). the spruce.

*Instructional scenario submitted by Tonja Romero, Kettle Run High School, Fauquier County Public*

*Schools*