

## Objective

By the end of this lesson, the student will be able to plan a simple orchard layout, understand the requirements for growing different types of fruit trees, and appreciate the importance of biodiversity in an orchard ecosystem.

## Materials and Prep

- Notebook and pencil for taking notes and sketching
- Access to the internet (optional) for research
- Basic understanding of plant growth and seasons
- Knowledge of local climate and soil conditions (if applicable)

## Activities

### • Research Different Fruit Trees:

The student will research various types of fruit trees that can grow in their area. They should look at factors such as climate, soil type, and the amount of sunlight each tree needs.

### • Design an Orchard Layout:

Using their notebook, the student will sketch a layout for their orchard, deciding where to plant each type of tree based on their research. They can consider spacing, sunlight, and accessibility for harvesting.

### • Explore Biodiversity:

The student will learn about the importance of planting a variety of trees and plants in their orchard. They can make a list of companion plants that could help their fruit trees thrive.

### • Plan for Maintenance:

Students will create a simple maintenance plan outlining what care each type of tree will need throughout the year, including watering, pruning, and pest management.

## Talking Points

- "Did you know that different fruit trees have different needs? Some like it hot, while others prefer cooler weather!"
- "When planning your orchard, think about how much space each tree will need. They don't like to be crowded!"
- "Biodiversity is super important! Having different types of plants can help keep pests away and create a healthier environment."
- "Companion planting is a great technique! Some plants can help each other grow better. Can you think of any combinations?"
- "Proper care is key! Each tree will have its own maintenance schedule. What do you think a fruit tree needs throughout the year?"
- "Orchards can be beautiful and productive! Imagine walking through rows of fruit trees, smelling the blossoms, and picking ripe fruit!"
- "Remember, planning is essential. It's like drawing a treasure map to your future fruit!"
- "What fruit do you love the most? Let's make sure to include it in your orchard design!"
- "Climate and soil are like the home for your trees. If they're not happy, your trees won't be happy!"

- "Every tree has a story! Researching their origins can be fun and might inspire your orchard choices!"
- "Have you thought about how you'll protect your trees from pests? There are natural ways to do it!"
- "Finally, remember to enjoy the process! Planning your orchard is the first step to growing delicious fruits!"