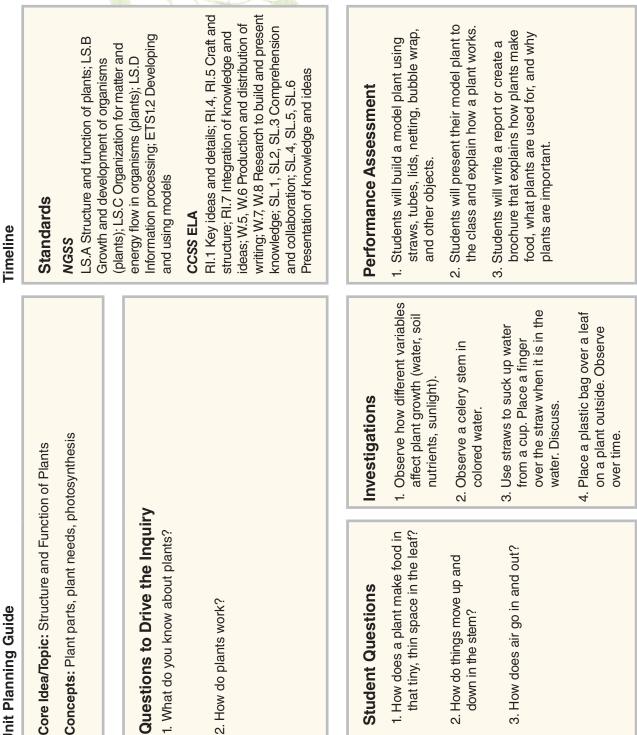
Unit Planning Guide

Questions to Drive the Inquiry

Figure 1.5. Unit Planning Guide: Structure and Function of Plants



The Power of Questioning: Guiding Student Investigations



Figure 1.5 (continued)

	Art	 van Gogh: Observe, draw, and paint sun- flowers. Cézanne: Observe, draw and paint still life (using real vegetables and fruits). O'Keeffe: Observe, draw, and paint flowers.
_	Social Science	 Where do plants grow? Research and compare plants that grow in different ecosystems. Locate geographic regions on a map. How is food transported locally and globally?
English	Language Arts	 Read informational text to explain key details about plants. Record observations and describe relevant details in journals. Label diagrams and drawings. Write reports communicating understanding of how plants work.
_	Mathematics	 How would you measure a sunflower or other plant as it grows? Create charts and graphs to organize the data collected from plant experiments.
_	Engineering	 Build a model plant to show the parts of a plant and explain how the parts work.
	Technology	 Digital micro- scope: View seeds, roots, stems, and leaves. Kidspiration: Organize key details in prepa- ration for writing. Class blog: Report data and information collected from plant experiments (include pictures). Apps: Kids Discover: Plants; Leaf Snap.
_	Science	How do the parts of a plant work? How does climate affect the growth of plants? How does weather affect the growth of plants? How does soil quality affect the growth of plants?

Learning Styles

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- Real plant experiments
 - Campus field trips
- Time-lapse videos
- Picture books

Auditory: Hear It

- Discussions, large and small group
- Student collaboration
 - Video presentations
- Audio recording

Kinesthetic: Do It

- Campus field trips
 - Gardening tasks
- Building model plants
- model plants

Differentiation Strategies

- Use songs and chants about plants.
- Use videos, technology applications, and hands-on investigations.
- Create charts that emphasize key vocabulary in context with photographs or drawings.