

Sophienburg Grant: Naturalists of Texas

Hybrid Plants

Time Frame:

1 hour class period

Subjects

**Science
Art**

**Social Studies
Technology Applications**

**Language Arts
Music**

Math

**Lesson
Overview**

Students will create their own hybrid plant. They will draw, color, and write a paragraph explaining the characteristics of their plant to share with the other students.

TEKS

Science 5th Grade

5.10A compare the structures and functions of different species that help them live and survive such as hooves on a prairie animal or webbed feet in exotic animals

5.10B differentiate between inherited traits of plants and animals such as spines on a cactus or shape of black and learned behaviors such as an animal

Objectives

The student will...

- identify defining characteristics of plants and how plants can be classified based on these characteristics.

Vocabulary

Venn Diagram

Function

Genus

Compare

Hybrid

Species

Contrast

Inherited Trait

Family

Structure

Materials

- Lindheimer Naturalist card set (can be downloaded from the Sophienburg website at _____)
- Venn Diagram Handout
- 11 X 14 paper
- Markers
- Internet access for plant research

Hybrid Plants

Activity Process

Engage The Learner

Give each student a card set. Teacher will ask students to hold up a card that meets a specific criteria (i.e. "Show me a plant structure", "Tell me the function of the structure," etc.) Discuss with students their choices and note the similarities and differences of plants they chose.

Activity/ Activities

1. Students will use all of the plant cards from the set to create a Venn Diagram comparing plant structures (i.e. spines, thick or fleshy leaves, flowers, roots, veins, etc.) and functions (i.e. absorption of water, anchoring the plant, food storage, shade, protection, etc). Students may use www.wildflower.org for added information. (To add more variety to the activity, the teacher may allow students to choose additional plants listed on www.wildflower.org)
2. Students will design and create a hybrid plant using the information on the Venn Diagram and write a paragraph describing chosen structures and explaining how their functions aid in everyday life and survival.

Evaluation

Students will create a poster/drawing of their hybrid creation. The final product should include the name of the new plant and a paragraph describing its hybrid characteristics.

Venn Diagram Graphic Organizer

Name: _____ Date: _____

