

Name \_\_\_\_\_

# New Plant Species Project

**Problem:** Taltree Arboretum is looking to include a new plant species. Can you help them by creating one?

**Goal:** I can use my knowledge of plants to create a new species. I will explain, describe or show its life cycle, what it needs to survive, where it is from, its different parts and their functions. I will draw a diagram or create a labelled model of my new species of plant.

Before we begin, think of what you want your end product to be. You have a few choices. You do not need to decide right now but keep them in mind. When you've decided, highlight your choice.

- A poster complete with text and colored illustrations
- A flip book that is labelled and organized with text and colored illustrations
- A nonfiction article with text, colored illustrations, and other nonfiction text features
- A 3D model of your new plant species and a report with text and illustrations (some of this work may have to be done at home)

## Part 1 Life cycle

You will need to use what you know about plant life cycles. How does a plant's life begin? What stages does it go through? How does it change? What does it look like when it is an adult? How does the life cycle continue?

Create an illustrated life cycle flowchart. It will need the stages labelled and described.

## Part 2 Needs and Location

Think about what all plants need to survive. Now use what you know about plants from different areas of the world. What will your plant need? What country or area will it live in? (desert, prairie, forest, rain forest, etc.) How will it get what it requires? Think of rainfall, amount of sunlight, and type of soil.

Describe the needs and location in an organized paragraph with a main idea and supporting details. You may also include a map for the location.

## Part 3 Plant Parts and Functions

You have learned the parts of a plant and what each does. How does each part work with the others to help your plant survive?

Identify the parts of your plant and explain each's function in organized paragraphs with main ideas and supporting details. You may include labelled illustrations too.

## Part 4 Plant Diagram or Model

What will your adult plant look like? How big will it be? Will it have flowers and what will they look like? Is the stem thin, thick, thorny, etc? Are the leaves large, small, smooth, bumpy, etc? Are the roots long or short?

Create your plant with an illustrated and colored diagram complete with labelled parts. If you have chosen to do the 3D model, you will need to figure out how to make it. You may need to build it at home.

Name \_\_\_\_\_

**New Plant Project Rubric**

	4	3 *Goal*	2	1
<b>Part 1</b> <b>Life Cycle</b>	All stages are illustrated, colored, labelled, and completely described on flowchart. Very neat, organized, and easy to read.	All stages are illustrated, labelled, and simply described on flowchart.	Most stages are illustrated and labelled on flowchart.	A few stages are illustrated or labelled on flowchart.

Score: \_\_\_\_\_ Comments: \_\_\_\_\_

<b>Part 2</b> <b>Needs and Location</b>	Paragraph has clear main idea and details explaining in detail everything the plant needs. Separate paragraph describing where the plant lives. A map is included.	Paragraph has main idea and details explaining everything the plant needs and where the plant lives.	Has a few sentences explaining a few things the plant needs. It may include the location.	Has a sentence or two explaining a need or location.
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Score: \_\_\_\_\_ Comments: \_\_\_\_\_

<b>Part 3</b> <b>Plant Parts and Function</b>	Paragraph has clear main idea and details explaining in detail the parts and their functions. Labelled illustrations are included.	Paragraph has main idea and details explaining the parts and their functions.	Has a few sentences explaining a few of the parts and their functions.	Has a sentence or two explaining the parts of the plant.
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Score: \_\_\_\_\_ Comments: \_\_\_\_\_

<b>Part 4</b> <b>Plant Diagram or Model</b>	Colored diagram or model shows adult plant. Specific details of plant are shown. (texture of leaves, length of roots, etc.) Parts are clearly labelled.	Colored diagram or model shows adult plant. Parts are labelled.	Diagram or model shows adult plant. Some parts may be labelled.	Has a simple drawing of plant.
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Score: \_\_\_\_\_ Comments: \_\_\_\_\_

