

PLANT DEFENSES IN THE CLOUD FOREST
Station Slips

Name:

Name of Station/Plant:	Problem Faced by Plant:	Method of Defense:
------------------------	-------------------------	--------------------

Name:

Name of Station/Plant:	Problem Faced by Plant:	Method of Defense:
------------------------	-------------------------	--------------------

Name:

Name of Station/Plant:	Problem Faced by Plant:	Method of Defense:
------------------------	-------------------------	--------------------

Name:

Name of Station/Plant:	Problem Faced by Plant:	Method of Defense:
------------------------	-------------------------	--------------------

Name:

Name of Station/Plant:	Problem Faced by Plant:	Method of Defense:
------------------------	-------------------------	--------------------

Name:

Name of Station/Plant:	Problem Faced by Plant:	Method of Defense:
------------------------	-------------------------	--------------------

PLANT DEFENSES IN THE CLOUD FOREST
Group Presentation Preparation

Name of our defense mechanism:

How can I explain this defense mechanism?

Examples of plants that use this defense mechanism and why:

Incorrect examples placed in my box:


Name of our defense mechanism:

How can I explain this defense mechanism?

Examples of plants that use this defense mechanism and why:

Incorrect examples placed in my box:

PLANT DEFENSES IN THE CLOUD FOREST
 Student Assessment: Defense Mechanisms

<input type="checkbox"/> 2 points Correct, clear, and thorough <input type="checkbox"/> 1 point Partially correct and clear <input type="checkbox"/> 0 points Incorrect or unclear	#1	List three defense mechanisms used by plants: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> 2 points Correct, clear, and thorough <input type="checkbox"/> 1 point Partially correct and clear <input type="checkbox"/> 0 points Incorrect or unclear	#2	Define <i>thigmonasty</i> and give an example of a plant that uses this mechanism.
<input type="checkbox"/> 2 points Correct, clear, and thorough <input type="checkbox"/> 1 point Partially correct and clear <input type="checkbox"/> 0 points Incorrect or unclear	#3	Read the following description and determine the type of defense mechanism used by the plant: <i>Lithops spp.</i> lives in very dry regions of southern Africa. These plants avoid being eaten by blending in with surrounding rocks. They are more commonly referred to as “pebble plants” or “living stones”.
<input type="checkbox"/> 2 points Correct, clear, and thorough <input type="checkbox"/> 1 point Partially correct and clear <input type="checkbox"/> 0 points Incorrect or unclear	#4	Examine the picture from the Mid Elevation Forest and determine the type of defense mechanism displayed. Explain the problem this plant is facing and why it needed to defend itself in this manner. 

<input type="checkbox"/> 2 points Correct, clear, and thorough <input type="checkbox"/> 1 point Partially correct and clear <input type="checkbox"/> 0 points Incorrect or unclear	#5	A species of leguminous plant grows readily in a large meadowland. The population of white-tailed deer in the area is high. Develop a defense mechanism that this plant could evolve to protect itself from deer predation. Be sure to include the type of defense mechanism it is, as well as a thorough explanation.
--	----	--

Total Score = _____ / 10

○ 10 points	Mastery – You have a strong understanding of the lesson objectives.
○ 8 – 9 points	Proficient - You’re almost there!
○ 6 – 7 points	Beginning Proficiency – You are starting to understand.
○ 1 - 5 points	Needs Improvement – You made several mistakes. Ask for help and keep practicing.

PLANT DEFENSES IN THE CLOUD FOREST

Plant Lists

Defense Mechanism	Description	Plant Examples
Chemical	Influences the behavior, growth, or survival of herbivores. May act as repellents, toxins, or reduce plant digestibility.	Panorama #2 hotspot “Fuzzy Leaves” Video “Tree Sap” poison ivy, oak, and sumac, many types of unripe fruit sap
Mechanical	External structural anatomy that discourages herbivore predation. May deter, injure, or kill herbivore.	Panorama #1 hotspots “Why Spines” and “Science of Leaf Toughness” Panorama #2 hotspot “Fuzzy Leaves” sap, spines, layers of armor around seeds, rose thorns, raspberry plants, coconuts,
Thigmonasty	Movement in response to touch.	Mimosa
Mimicry & Camouflage	Acts or looks like another organism.	passion flowers or passion vines, mistletoe