

Plant Adaptations & Tropisms Webquest

Name: _____ Class: _____ Date: _____

Objectives: Using computer modeling, you will investigate how plants adapt to the land environment, including what hormones and tropisms (behaviors) to survive.

Target vocabulary: hormones, tropisms, thigmotropism, photoperiodism, phototropism, auxin, gravitropism, herbicide, cytokinins, gibberellins, ethylene, nastic movement

Part I: Plant Hormones. Complete the chart using information from this webpage:
<https://www.mheducation.com/hm/edu/author/34088/Book-PLANTHORMONES.html>

1. What is a hormone? _____

Name of Hormone	What does it do?	Where is it produced?
Auxin		
Gibberellins		Not in the stem tip.
Cytokinins		
Abscicic Acid		
Ethylene		

Part II: Tropisms. Use this link to watch movies for the following tropisms.
<https://plantmotion.biology.illinois.edu/plantmotion/movements/tropism/tropisms.html>

2. Define. What is a tropism? _____

Watch these 2 movies and answer the questions.

<https://plantmotion.biology.illinois.edu/plantmotion/movements/tropism/tautness.html>
<https://plantmotion.biology.illinois.edu/plantmotion/seed/growth/growth/growth/growth.html>

3. What is gravitropism? _____

4. Why is gravitropism important for plants? _____

Watch 2 movies and answer the questions.

<https://plantmotion.biology.illinois.edu/plantmotion/movements/tropism/tropisms.html>

Plant Adaptations And Tropisms Webquest Answer Key

Ian Pickup



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