

Name: _____

Date: _____

Notes: Plant System Interactions

What are the three main functions of the **root system**?

1. _____
2. _____
3. _____

What does the **shoot system** include? _____

What are the three main functions of the **shoot system**?

1. _____
2. _____

Solar energy is converted into what other form? _____

What are **stomata**? _____

Which cells control the size of a stoma? _____

What is a **cuticle**? _____

3. _____

What is **vascular tissue** for? _____

Describe **xylem**: _____

Describe **phloem**: _____

What do we call it when seeds sprout and start to grow? _____

What do we call plant growth in response to stimuli? _____

What do we call plant growth in response to *light*? _____

The prefix _____ means *light*

What do we call plant growth in response to *gravity*? _____

Gravitropism is also known as _____

The prefix _____ means *earth/ground*

What do we call plant growth in response to *water*? _____

The prefix _____ means *water*

What do we call plant growth in response to *touch*? _____

The prefix _____ means *touch*

What hormone allows plants to respond to these stimuli? _____

What does it mean for a tropism to be **positive**? _____

What does it mean for a tropism to be **negative**? _____

What do we call the rapid movements that some plants can make in response to stimuli?

What cell process causes *water* to enter or leave a cell? _____

Water primarily moves in and out of which organelle? _____

What do we call the pressure in a plant cell caused by water levels in the central vacuole?

What do we call a rapid response to changes in *light*? _____

The prefix _____ means *light*

What do we call a rapid response to changes in *touch*? _____

The prefix _____ means *touch*

How is thigmonasty used by plants like the touch-me-nots? _____

How is thigmonasty used by plants like the Venus flytrap? _____
