

Tropisms Lab Quiz7th Grade Science
Unit 8**Directions:** Circle the letter that corresponds to the correct answer.

1. Tropism is a growth or turning movement of a plant in response to -
 - a. a response
 - b. a stimulus
 - c. a reaction
 - d. an effect
2. Geotropism is a type of tropism where the plants growth responds to -
 - a. light
 - b. touch
 - c. gravity
 - d. water
3. How is phototropism beneficial to a plant?
 - a. It helps the plant to get the most amount of light possible.
 - b. It helps the plant by providing support.
 - c. It helps the plant to get nutrients and water that are deep in the soil.
 - d. It helps the plant to grow a deep root system.
4. Which of the following tropisms are the same as geotropism?
 - a. thigmotropism
 - b. hydrotropism
 - c. phototropism
 - d. gravitropism
5. A student conducts an experiment where he places a light source below a plant. Over a three week time period he observes the plant's growth. Which of the following would he observe at the end of the three weeks.
 - a. Roots would grow up out of the pot and then down towards the light.
 - b. The plant stem would grow up and roots would grow down.
 - c. The plant would start to bend over and grow downwards toward the light.
 - d. The plant would wilt and die.
6. Over an extended period of time a student observes how a particular plant comes in contact with a metal pole and begins to wrap around the pole and grow upwards. Which type of tropism is the plant responding to?
 - a. geotropism
 - b. hydrotropism
 - c. phototropism
 - d. thigmotropism

7. As a plant grows toward the sunlight to gain maximum energy through photosynthesis, it is responding to a -
- a. external stimulus
 - b. internal stimulus
 - c. phototropism
 - d. both option a and c

8. How is a plant responding to thigmotropism beneficial to a plant?
- a. It provides energy for the plant.
 - b. It provides support for the plant.
 - c. It provides nutrients for the plant.
 - d. It provides water for the plant.

9. Which of the following would most likely happen if plants did not respond to geotropism?
- a. Plant roots would grow in every direction.
 - b. Plant roots would continue to grow straight down.
 - c. Plant stems would grow straight up.
 - d. The plant would grow larger than usual.

10. Which of the following illustrations is an example of gravitropism?



