Name_	Period	

## Tropisms Lab Quiz

7<sup>th</sup> 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.

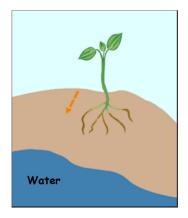
- 4. Which of the following tropisms are the same as geotropism?
  - a. thigmotropism
  - b. hydrotropism
  - c. phototropism
  - d. gravitropism
- 5. A student conducts an experiment where he places a light source below a plant. Over a three week time period he observes the plant's growth. Which of 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.
  - The plant would start to bend over and grow downwards toward the light.
  - d. The plant would wilt and die.
- 6. Over and 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?



a.



b.



C.



d.