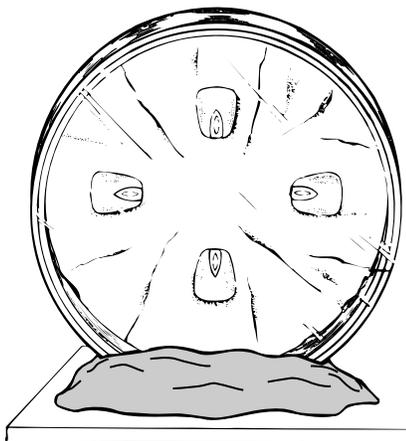


Plant Tropisms Worksheet

Part I

1. Draw a sketch of the corn seedlings at the end of the germination period. Make sure to label the shoots and roots.



2. Answer these questions:

- a. Describe the pattern of root growth for the corn seeds. (Use the word gravitropism in the description.)

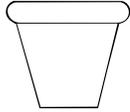
- b. Describe the pattern of stem growth for the corn seeds. (Use the word gravitropism in the description.)

- c. Speculate about a possible mechanism to explain the patterns described above.

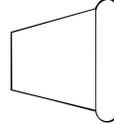
Plant Tropisms Worksheet, Con't.

Part II

1. Draw a sketch to show the general growth pattern of most of the plants in each pot.



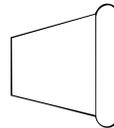
Pot #1: Light (upright)



Pot #2: Light (turned on side)



Pot #3: Dark (upright)



Pot #4: Dark (turned on side)

2. Answer these questions:

a. What is the purpose of Pot #1 in this experiment?

b. Is there any evidence from this experiment for gravitropic or phototropic responses of radish stems? Explain.

c. Design an experiment using radish seeds that would show clearly a phototropic response to a directional light source.