

# Junior Master Gardener Curriculum (Pre)

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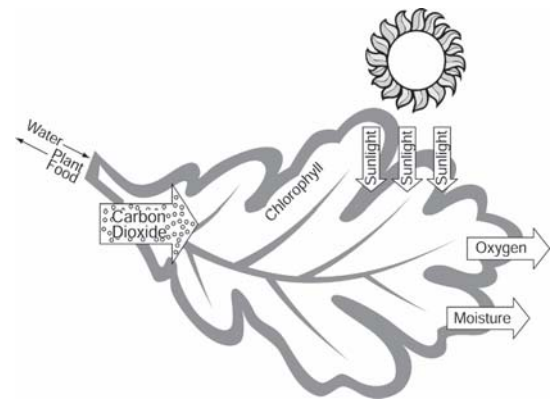
## Chapter 1 - Plant Growth and Development

1. Which sentence describes one of the jobs that roots do for the plant?

- Roots create seed for the plant.
- Roots produce food for the plant.
- Roots absorb light from the sun.
- Roots hold the plant in place.

2. What gas do plants give off during photosynthesis?

- oxygen
- water
- sunlight
- carbon dioxide



3. You can start a new plant from a seed or a cutting. This is called \_\_\_\_\_.

- Plant propagation
- Birth
- Stemming
- Growing

## Chapter 2 - Soils and Water

1. Which jar shows a soil texture that would hold more water for plants to use?

- The jar with the most clay.
- The jar with the most sand.
- The jar with more silt than clay.
- All of the jars show a soil texture that hold enough water for plants.



**MARKING INSTRUCTIONS**

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2. What could you do to improve your soil to grow healthier plants?
- Remove sand and add lots of water
  - Add sand
  - Add clay
  - Add compost to the soil
3. Which part of the water cycle does water change from a liquid to a gas?
- condensation
  - precipitation
  - evaporation
  - run-off

**Chapter 3 - Ecology and Environmental Horticulture**

1. Which item below is the beginning of all food chains?
- consumers
  - animals
  - water
  - plants
2. What would probably happen after 10 cups of fertilizer were sprinkled on the soil all at one time around a plant and then the plant was watered?
- the plant could grow much taller from the extra nutrients
  - the soil could become polluted and harm the plant and animals nearby
  - the size of the plant would not change
  - the soil would give the plant only what it needs
3. What is a way that I can help the environment?
- Recycle paper and plastic
  - Select plants that grow well in my county
  - Use worms to recycle food waste
  - All of the above



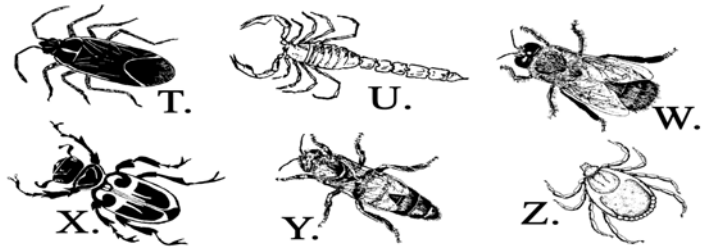
**MARKING INSTRUCTIONS**

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**Chapter 4 - Insects and Diseases**

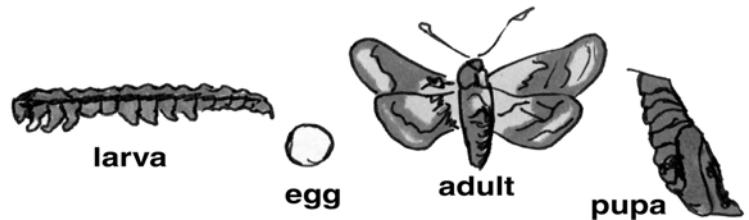
1. These creatures were captured with an insect trap. Which of the creatures prove that the trap does not just capture insects?

- T, X, Z
- W, Y
- T, W, X, Y
- U, Z



2. The picture below shows the different stages of metamorphosis of an insect. What is the correct order from start to finish?

- egg, pupa, adult, larva
- egg, larva, pupa, adult
- pupa, egg, adult, larva
- pupa, egg, larva, adult



3. When you notice insects on a plant, it is important to

- find out if the insect is harmful or helpful to the plant
- kill insects by using a pesticide
- remove insects safely by knocking them off with a strong water spray
- allow insects to remain on plant to pollinate flowers

**Chapter 5 - Landscape Horticulture**

1. Trees save energy and money because they

- Provide shade
- Drink lots of water
- Attract insects
- All of the above



**MARKING INSTRUCTIONS**CORRECT:  INCORRECT:   

2. An annual plant is . . . .
- A plant that grows all year long
  - A plant that grows back every year
  - A plant that must be planted each year
  - A plant that lives only one week
3. Adding mulch around your plants. . . .
- Conserves water
  - Makes a hiding place for bugs
  - Is too expensive
  - Is harmful to the environment

**Chapter 6 - Fruits and Nuts**

1. A fruit starts out as a . . . .
- Twig
  - Root
  - Stem
  - Flower
2. Which of the following is NOT made from a fruit or nut?
- Jelly
  - Peanut butter
  - Butter
  - Raisins
3. Seeds can travel to new locations when fruit. . . .
- Is eaten by animals
  - Drops to the ground and decays
  - Floats on water
  - All of the above



**MARKING INSTRUCTIONS**

CORRECT: ● INCORRECT: ✗ ⊗ 🚫 🚫

**Chapter 7 - Vegetables and Herbs**

1. A garden should receive . . . .
  - 30 minutes of sunlight every day
  - 1 hour of sunlight every day
  - 2-3 hours of sunlight every day
  - At least 6 hours of sunlight every day
  
2. You should eat at least\_\_\_\_ servings of fruits and vegetables each day.
  - One
  - Five
  - Three
  - Twelve
  
3. To choose a healthy snack, look at the food label and select the snack that is . . . .
  - Low in fiber
  - High in fat
  - High in Vitamin A&C
  - High in sugar

