

# Grade 6 – Trees and Forests

## Test #1

Name:

MAKE SURE YOUR NAME IS ON THE TEST

THIS TEST IS WORTH 35 MARKS

YOU WILL HAVE 1 FULL PERIOD TO COMPLETE THE TEST

READ ALL INSTRUCTIONS CAREFULLY

ANSWER ALL QUESTIONS

Parts I, II, and III should take you no more than 15 min

Spend at least 30 min on Part IV

Good Luck!

Section	Maximum Possible Score	Your Score
Part I – Mix and Match	5	
Part II – True or False	5	
Part III – Multiple Choice	5	
Part V – Written Response	20	
<b>TOTAL</b>	<b>35</b>	

**Part I: Mix and Match**

**Match the following terms to the correct definition:**

- |                   |   |
|-------------------|---|
| 1. Decomposers    | <input type="checkbox"/> The process by which leaves make food for the plant              |
| 2. Photosynthesis | <input type="checkbox"/> Living things that use energy from the sun to produce their food |
| 3. Producers      | <input type="checkbox"/> The movement of water  |
| 4. Transpiration  | <input type="checkbox"/> Living things which feed off of dead plants and animals          |
| 5. Consumers      | <input type="checkbox"/> Living things that eat producers                                 |

**Part II: True or False**

**Write down "T" for each statement you believe to be true and "F" if you believe it to be false.**

- |           |   |
|-----------|---|
| 6. _____  | Most of the photosynthesis occurs in the top layer of the forest                |
| 7. _____  | Fungi can produce food through photosynthesis                                   |
| 8. _____  | An herbivore is a plant that produces its own food                              |
| 9. _____  | The sun, trees, and water are all non-living components of the forest ecosystem |
| 10. _____ | The role of trees in the nutrient cycle is to feed consumers                    |

**Part III: Multiple Choice**

**Circle the letter that *best* answers the question.**

11. Which category of consumers best describes an organism that eats both plants and animals?
- a. Herbivores
  - b. Omnivores
  - c. Multivores
  - d. Carnivores

Use the following information to answer question 12.

Here is a list of organisms that can be found in a forest ecosystem:

*Rabbit*

*Deer*

*Skunk*

*Grass*

*Bear*

*Vulture*

*Fox*

*Fungi*

*Tree*

12. Which statement is correct?

- The grass is a producer, the fox is a consumer, the deer is a decomposer
- The grass is a producer, the bear is an herbivore, the skunk is a decomposer
- The tree is a producer, the deer is a consumer, the fungi is a decomposer
- The tree is a producer, the vulture is an omnivore, the grass is a decomposer

Use the following food chain to answer question 13.

Flower → Caterpillar → Frog → Snake → Owl

13. Which statement is **not** correct?

- The flower is the producer in this food chain
- The snake is the tertiary consumer
- The frog is the secondary consumer
- The owl is the tertiary consumer

14. Which statement is an example of a nutrient cycle?

- sun → grass → rabbit → fox → fungi
- soil → rabbit → grass → soil → bacteria
- sun → grass → rabbit → bacteria → soil
- soil → grass → rabbit → bacteria → soil

15. Which of the following happens as a result of photosynthesis?
- a. Plants take in carbon dioxide and release oxygen
  - b. Plants take in sugar and release carbon dioxide
  - c. Plants take in oxygen and release carbon dioxide
  - d. Plants take in light energy and release carbon dioxide

**Part IV: Written Response**

**Answer the following questions thoroughly in complete sentences.**

**Make sure you explain yourself as clearly as possible.**

**READ THE QUESTIONS CAREFULLY!**

16. Give and explain 4 reasons why trees and forests are valued.

17. Name 5 living and 5 non-living components that can be found in a forest ecosystem.

18. What are decomposers and what role do they play in the nutrient cycle? (Answer **both** questions in detail.)

19. Use the **given** organisms to create a food chain and a food web. Define food chain and explain the difference between a food chain and a food web. (Make sure you respond to all **three** things being asked here)

**Given Organisms:**

Snake

Wildflowers

Mouse

Hawk

Grass

Rabbit

*Use the food chain you drew in question 19 to answer the next question.*

20. What might happen if all the **primary consumers** in your food chain suddenly died off? (Make sure to answer the question **thoroughly**)