



Grade 3 Knowledge Scale: Pre/Post-Test

Directions: Read each question carefully. Choose only one answer for each question. Circle your answer from the choices below.

1. One of the jobs of a tree is to make shade for other living things.
 - a. True
 - b. False
2. Which animal depends on trees for looking spots?
 - a. Alligators
 - b. Owls
 - c. Blue herons
3. Trees in the forest can compete for water and sunlight.
 - a. True
 - b. False
4. Living things depend on each other for food.
 - a. True
 - b. False
5. Some living things do not have a job to do.
 - a. true
 - b. false
6. Which depends upon trees to make its home?
 - a. a spider
 - b. a bird
 - c. a bear
 - d. all of the above

7. Team members don't depend on each other.
- a. true
 - b. false
8. All members of a team have a job to do.
- a. True
 - b. False
9. When two squirrels try to get the same nut from the same tree, they
- a. compete
 - b. cooperate
10. _____ depend on other plants for climbing support.
- a. vines
 - b. grasses
 - c. pine trees
11. All teams must have members
- a. true
 - b. false
12. The job of some birds is to spread seeds from the berries they eat.
- a. true
 - b. false
13. Animals depend on plants for many things
- a. true
 - b. false
14. Living things do not need the Earth as their home.
- a. true
 - b. false



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GRADE 4 KNOWLEDGE SCALE: Pre/Post-Test

DIRECTIONS: Read each question carefully. Choose only one answer for each question. Circle your answer from the choices below.

1. Energy flows...
 - a. in a cycle.
 - b. one way.
 - c. from the earth to the sun.

2. Which is a “rule” of energy flow?
 - a. Only a few living things need the sun for energy.
 - b. Energy flows from the sun to plants to animals, and cycles back again.
 - c. As energy flows, some gets used and some goes its own way as heat.

3. Which shows the correct order in which energy flows?
 - a. sun — producer — consumer
 - b. producer — sun — consumer
 - c. sun — consumer — producer
 - d. consumer — producer — sun

4. The main source of energy for life on Earth is . . .
 - a. plants.
 - b. coal and oil.
 - c. sunlight.
 - d. wind and water.

5. Which is a producer?
 - a. grass
 - b. chickens
 - c. cows
 - d. horses

6. Photosynthesis happens when . . .
 - a. plants change the sun’s energy into food energy.
 - b. animals make their own food energy.
 - c. plants use food energy.
 - d. animals use food energy.

7. Photosynthesis does *not* happen in . . .
- trees.
 - flowering plants.
 - grasses.
 - grasshoppers.
8. Where does photosynthesis take place?
- in the muscles on animals
 - in the roots of plants
 - in the skin of animals
 - in the leaves of plants
9. As energy flows from the sun to the producers and consumers, _____ of the sun's energy gets to the consumers.
- all
 - some
 - none
10. Below is an example of how energy flows.
- sun — grass — grasshoppers -- snakes — hawks
- What will probably happen if grasshoppers are removed from this flow of energy?
- All the grass, snakes, and hawks will die.
 - The grass will die, but snakes and hawks will look for other food.
 - The grass will grow, and there will be fewer snakes and hawks.
11. Plants get their energy from . . .
- soil.
 - water.
 - sunlight.
 - animals.
12. What is *made* during photosynthesis?
- carbon dioxide
 - water
 - food
13. Which do plants *take in* during photosynthesis?
- water and food energy
 - sunlight, water and carbon dioxide
 - oxygen and minerals

14. Which describes a *consumer*?
- a. It uses carbon dioxide.
 - b. It makes its own food energy.
 - c. It gets its energy from other living things.
15. Which of the following is *not* a *consumer*?
- a. a squirrel
 - b. a grasshopper
 - c. a rabbit
 - d. a fruit tree
16. Over millions of years, energy stored in plants can be changed into . . .
- a. rock.
 - b. coal.
 - c. mud.
17. The energy we use to power our lights and televisions can be used over and over again.
- a. True
 - b. False
18. The food energy you get from a baked potato comes from . . .
- a. plants.
 - b. the oven.
 - c. animals.
19. The energy in an orange comes from the sun.
- a. True
 - b. False



Grade 5 Knowledge Scale: Pre/Post-Test

Directions: Read each question carefully. Choose only one answer for each question. Circle your answer from the list below.

1. Our bodies need both water and air on a regular basis to grow and function.

- a. True
- b. False

2. Minerals are not needed for our bodies to grow and function.

- a. True
- b. False

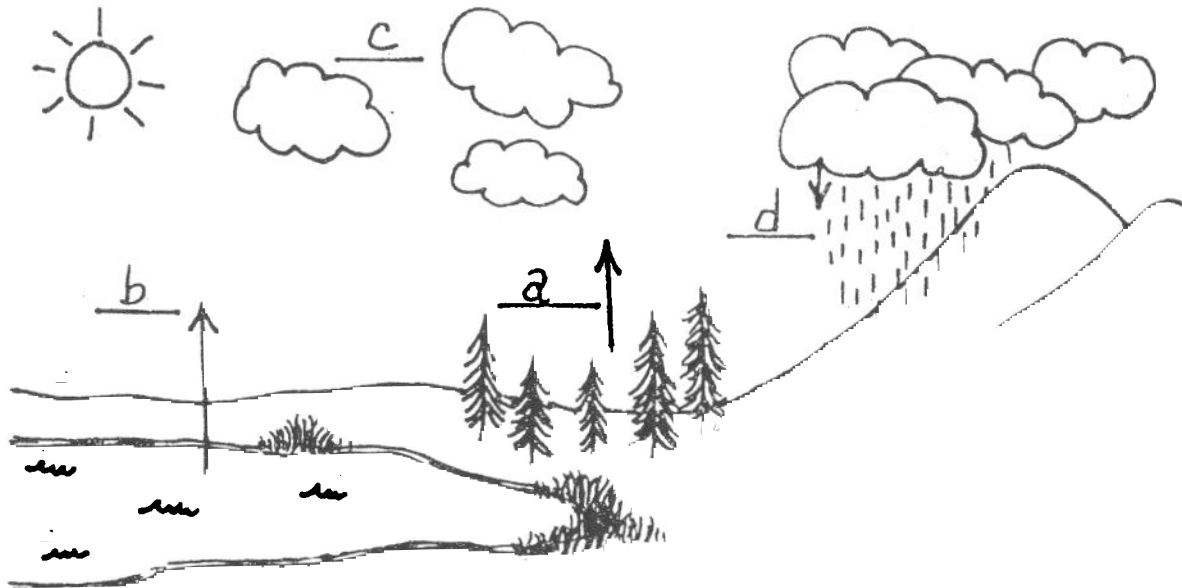
3. Which of these does not cycle?

- a. Energy
- b. Minerals
- c. Air
- d. Water

4. Which shape best demonstrates the idea of a natural cycle?

- a. Square
- b. Rectangle
- c. Circle
- d. Triangle

Use the picture below to answer questions 5-10



Water Cycle

5. At which lettered position in the water cycle diagram (above), does precipitation take place: a, b, c, or d?
6. At which lettered position in the water cycle diagram (above), does evaporation take place: a, b, c, or d?
7. At which lettered position in the water cycle diagram (above), does condensation take place: a, b, c, or d?
8. At which lettered position in the water cycle diagram (above), does transpiration take place: a, b, c, or d?
9. There is less fresh water for us to use when people waste it.
 - a. True
 - b. False
10. How do people harm the water cycle?
 - a. People using pesticides on their lawns and gardens
 - b. People pouring used car oil on the ground
 - c. People taking long showers
 - d. All of the above

11. Living things play an important part in the air cycle.

- a. True
- b. False

12. In the air cycle, plants give off...

- a. Oxygen.
- b. Carbon dioxide.
- c. Hydrogen.
- d. Nitrogen.

13. In the air cycle, animals breath in...

- a. Oxygen.
- b. Carbon dioxide.
- c. Hydrogen.
- d. Nitrogen

14. How do people harm the air cycle?

- a. They plant trees.
- b. They burn fossil fuels.
- c. They compost (reuse) garden waste.
- d. They recycle newspaper.

15. In the air cycle, animals breath out...

- a. Oxygen.
- b. Carbon dioxide.
- c. Hydrogen.
- d. Nitrogen.

16. How do people help the quality of air?

- a. They use coal to make electricity.
- b. They plant trees.
- c. They burn garbage.
- d. They use gasoline in cars and trucks.

17. Trees take up which of the following from the soil?

- a. Carbon dioxide
- b. Oxygen
- c. Minerals
- d. Energy

18. Animals get minerals like calcium and iron from...
- a. water
 - b. oxygen
 - c. food
 - d. energy
19. What do all animals do with minerals?
- a. create them
 - b. use them to stay alive
 - c. decompose them
20. Minerals are returned to the soil with the help from...
- a. plants
 - b. reptiles
 - c. decomposers
21. How do people harm the mineral cycle?
- a. They plant trees.
 - b. They feed plants to animals
 - c. They compost yard waste.
 - d. they use chemicals that kill decomposers.
22. All animals depend on the cycling of air, water, and minerals.
- a. true
 - b. false
23. Which provides you with a regular supply of minerals?
- a. roots of trees taking up minerals
 - b. trees growing fruits
 - c. insects eating tree leaves to stay alive and grow
 - d. decomposers breaking down dead trees

THE END