

Student's Name _____

THINKING WITH SCIENCE

Observation Quiz

Lesson 6 (The Radish Seedlings)

1. The group that is treated in the normal way is the:
 - A. manipulated group
 - B. control group
 - C. variable group
 - D. none of the above

2. Why should there be only one manipulated variable in any properly designed experiment?
 - A. otherwise you wouldn't know what caused the result
 - B. because there are so many controlled variables
 - C. it isn't possible to have two manipulated variables.
 - D. all of the above

3. Plants are green because they contain:
 - A. cell walls
 - B. chlorophyll
 - C. cell juice
 - D. all of the above

4. In order to manufacture chlorophyll, plants need:
 - A. sugar
 - B. light
 - C. soil
 - D. all of the above

5. If an object sits on the ground for several days, the grass turns yellow because:
 - A. it develops carotene pigment
 - B. it lacks light
 - C. it lacks water
 - D. none of the above

6. Green plants grow straight up because they are reacting mainly to:
 - A. water
 - B. light
 - C. gravity
 - D. all of the above

7. Green plants grow faster if they get more;
- A. light
 - B. heat
 - C. carbon dioxide
 - D. all of the above
8. The outermost layer of plant cells is called the:
- A. membrane
 - B. chloroplast
 - C. cell juice
 - D. cell wall
9. The part of a plant cell that regulates osmosis is the:
- A. cell membrane
 - B. cell wall
 - C. cell juice
 - D. none of the above
10. During photosynthesis, green plants produce:
- A. water
 - B. oxygen
 - C. chlorophyll
 - D. carbon dioxide
11. During cellular respiration, cells produce;
- A. water
 - B. oxygen
 - C. chlorophyll
 - D. none of the above
12. The only substance that can change light energy into food energy is:
- A. sugar
 - B glucose
 - C. chlorophyll
 - D. water
13. All of our energy comes from:
- A. glucose
 - B. carbohydrates
 - C. fats
 - D. proteins

14. The two main reasons why the earth could run out of oxygen are:

- A. too many plants and not enough animals
- B. too many animals and not enough plants
- C. too much carbon dioxide
- D. all of the above

15. The three types of energy foods are:

- A. sugar, water, and minerals
- B. carbohydrates, amino acids, and omega-3 fatty acids
- C. water, glucose, and minerals
- D. proteins, fats, and carbohydrates

16. The energy that is stored in energy foods comes from the:

- A. light
- B. chlorophyll
- C. carbon dioxide
- D. water

17. The process of burning wood is like;

- A. photosynthesis
- B. cellular respiration
- C. both of the above
- D. neither of the above

18. Some plants that store much of their excess glucose as fats are the:

- A. canola
- B. olive
- C. cotton
- D. all of the above

19. The main purpose of our stomach and small intestine is to:

- A. turn energy foods into glucose
- B. digest food
- C. turn carbohydrates into glucose
- D. all of the above

Students's Name ANSWER Key

OBSERVATION QUIZ FOR "THINKING WITH SCIENCE"

Quiz for Lesson 6 Quiz Number _____

1. A ☒ B C D E
2. ☒ A B C D E
3. A ☒ B C D E
4. A ☒ B C D E
5. A ☒ B C D E
6. A B ☒ C D E
7. A B C ☒ D E
8. A B C ☒ D E
9. ☒ A B C D E
10. A ☒ B C D E
11. ☒ A B C D E
12. A B ☒ C D E
13. ☒ A B C D E
14. A ☒ B C D E
15. A B C ☒ D E
16. ☒ A B C D E
17. A ☒ B C D E
18. A B C ☒ D E
19. A B C ☒ D E
20. A B C D E