| Student's Name |
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| THINKING WITH SCIENCE |
| Observation Quiz |
| Lesson 7 (The Lamp) |
| 1. If a lamp an a singuit lights you know that the singuit is |
| 1. If a lamp on a circuit lights, you know that the circuit is: A. a nonconductor |
| |
| B. complete |
| C. battery operated |
| D. direct current |
| 2. Electricity comes out of: |
| A. the negative end of a battery |
| B. a generator |
| C. both of the above |
| D. neither of the above |
| |
| 3. The filament of light bulbs that Thomas Edison invented were made of: |
| A. iron |
| B. copper |
| C. silver |
| D. tungsten |
| |
| 4. Most conductors are: |
| A. metals |
| B. plastics |
| C. ions |
| D. wood |
| |
| 5. The word "tentative", when applied to a conclusion, means: |
| A. incomplete |
| B. valid |
| C. temporary |
| D. final |
| 6 In announced A.D. and the state of the sta |
| 6. In experiment A-B, water is a controlled variable because it is: |
| A. a liquid |
| B. in both A and B |
| C. not a solid |
| D. pure |
| |
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| 7. After the question "Does A contain any water?", the question about A is "Does A contain water?" A. salt B. pure C. only | n that should be asked next |
|--|-----------------------------|
| D. filtered | |
| 8. A scientist usually changes his conclusion if: | |
| A. he gets new data | |
| B. he gets refuting data | |
| C. he thinks he's right | |
| D. he thinks new data are wrong | |
| | |
| 9. The difference between the control group and the experiment | tal group is the: |
| A. controlled variable | |
| B. manipulated variable | |
| C. focus | |
| D. only variable | |
| 10. You would not know what was causing the result of an experimental groups A. two experimental groups B. two manipulated variables C. two controlled variables D. all of the above | eriment if the experiment |
| 11. The particles of sodium and chlorine that have positive and called: | negative charges are |
| A. atoms | |
| B. molecules | |
| C. ions | |
| D. all of the above | |
| 12. A universal law of electricity and magnetism is: A. opposites attract | |
| B. they consist of electrons | |
| C. they flow | |
| D. ions repel each other | |
| D. Tolke Topol Guell Guilor | |
| 13. Ions in water act like for the electricity. | |
| A. molecules | |
| B. energy | |
| C. atoms | • |
| D. ferryboats | |
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| 14. The liquid containing only water and sugar didn't cause the lamp to light because: |
|--|
| A. it was a nonconductor |
| B. it contained no ions |
| C. it didn't complete the circuit |
| D. all of the above |
| 15. Battery acid is also called: |
| A. a conductor |
| B. sulfuric acid |
| C. caustic |
| D. all of the above |
| 16. How do you know that liquid D contained more than pure water? |
| A. it was cloudy |
| B. it caused the lamp to light |
| C. it contained no sugar |
| D. it wasn't a solid |
| |
| 17. A turbine has: |
| A. blades |
| B. a motor |
| C. a generator |
| D. all of the above |
| 18. Most of the electrical generators in the Midwestern United States are: |
| A. water powered |
| B. nuclear powered |
| C. coal powered |
| D. atomic powered |
| 19. When the ingoing and outgoing electrical wires from a generator touch each other |
| , it creates: |
| A. sparks |
| B. heat |
| C. a short circuit |
| D. all of the above |
| 20. Why won't the current from the six-volt battery pass through pure water: |
| A. six volts isn't strong enough |
| B. water contains too few ions |
| C. both of the above |
| D. neither of the above |
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Students's Name ANSINER KEY

OBSERVATION QUIZ FOR "THINKING WITH SCIENCE"

Quiz Number

Quiz for Lesson ______ A B C D E A B C D E A B C D 3. E 4. (A) B C D E A B C D E A B C D E 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 12. A B C D E 13. A B C D E в с Ф 14. E c (D) 15. B A (B) 16. C D E 17. (A) B C D E (C) D 18. B E

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