

# MY SO PRACTICE TEST

DIVISION B - MIDDLE SCHOOL, GRADES 6-9

## PRACTICE TEST

### Instructions

- You have 50 minutes to complete this test.
- You may write your answers directly in the test.
- You may use any notes or resources you have created or collected.
- You may use a calculator and scratch paper if necessary.
- Good Luck!

### Test Questions

1. Which form of heat transfer is best described when walking on the hot sand of a beach?
  - a. Conduction
  - b. Convection
  - c. Radiation
  - d. None of the above
2. Which form of heat transfer is best described when a ceiling fan is forcing the warm air downward?
  - a. Conduction
  - b. Convection
  - c. Radiation
  - d. None of the above
3. Which form of heat transfer is best described when feeling heat from a campfire?
  - a. Conduction
  - b. Convection
  - c. Radiation
  - d. None of the above
4. Which form of heat transfer can best be described when chocolate is melting in your hand?
  - a. Conduction
  - b. Convection
  - c. Radiation
  - d. None of the above

5. Which form of heat transfer can best be described when unscrewing a light bulb while it's still hot?
  - a. Conduction
  - b. Convection
  - c. Radiation
  - d. None of the above
6. What is another name for thermal energy?
  - a. Chemical Energy
  - b. Heat Energy
  - c. Kinetic Energy
  - d. Potential Energy
7. The process of changing energy from one form to another
  - a. Transfer
  - b. Transmission
  - c. Transportation
  - d. Transformation
8. Which of the following is a type of kinetic energy?
  - a. Chemical
  - b. Nuclear
  - c. Sound
  - d. Stored
9. Which of the following is a type of potential energy?
  - a. Chemical
  - b. Radiant
  - c. Sound
  - d. Thermal
10. Which type of energy is best represented by wind?
  - a. Electrical
  - b. Mechanical
  - c. Radiant
  - d. Thermal
11. Which type of energy is best represented by a microwave?
  - a. Electrical
  - b. Mechanical
  - c. Radiant
  - d. Thermal
12. Which type of energy is best represented by fuel?
  - a. Chemical
  - b. Electrical
  - c. Nuclear
  - d. Radiant

13. Which of the following is a renewable energy source?
- a. Biomass
  - b. Solar
  - c. Wind
  - d. They are all considered renewable
14. Which energy source comes from burning plants?
- a. Biomass
  - b. Hydroelectric
  - c. Solar
  - d. Wind
15. Which renewable resource needs a dam to produce electricity?
- a. Biomass
  - b. Hydroelectric
  - c. Solar
  - d. Wind
16. Ethanol comes from what type of renewable energy resource?
- a. Biomass
  - b. Geothermal
  - c. Hydroelectric
  - d. Solar
17. What renewable energy resource uses steam from the Earth to turn turbines?
- a. Biomass
  - b. Geothermal
  - c. Hydroelectric
  - d. Solar
18. Which fossil fuel burns the cleanest?
- a. Coal
  - b. Natural Gas
  - c. Nuclear
  - d. Oil
19. Which fossil fuel includes anthracite?
- a. Coal
  - b. Natural Gas
  - c. Nuclear
  - d. Oil
20. A flashlight converts electrical energy into what type of energy?
- a. Chemical
  - b. Potential
  - c. Radiant
  - d. Thermal

21. Solar energy is a type of what energy?
- a. Chemical
  - b. Nuclear
  - c. Radiant
  - d. Thermal
22. If the temperature of an object increase, the thermal energy
- a. Decrease
  - b. Increases
  - c. Stays the same
  - d. Both A and B
23. The SI unit for temperature is
- a. Celcius
  - b. Fahrenheit
  - c. Kelvin
  - d. Watts
24. Which color absorbs the most solar energy?
- a. Black
  - b. Blue
  - c. Green
  - d. White
25. Which color reflects the most solar energy?
- a. Black
  - b. Blue
  - c. Green
  - d. White

# ANSWER KEY

- |     |          |     |          |
|-----|----------|-----|----------|
| 1.  | <b>A</b> | 15. | <b>B</b> |
| 2.  | <b>B</b> | 16. | <b>A</b> |
| 3.  | <b>C</b> | 17. | <b>B</b> |
| 4.  | <b>A</b> | 18. | <b>B</b> |
| 5.  | <b>A</b> | 19. | <b>A</b> |
| 6.  | <b>B</b> | 20. | <b>C</b> |
| 7.  | <b>D</b> | 21. | <b>C</b> |
| 8.  | <b>C</b> | 22. | <b>B</b> |
| 9.  | <b>A</b> | 23. | <b>C</b> |
| 10. | <b>B</b> | 24. | <b>A</b> |
| 11. | <b>C</b> | 25. | <b>D</b> |
| 12. | <b>A</b> |     |          |
| 13. | <b>D</b> |     |          |
| 14. | <b>A</b> |     |          |