

FLPS

Name _____

Physical Science

Physical Science Study Guide

Semester 1 2020-2021

VOCABULARY

Directions: On a separate sheet of paper define the following words using complete sentences.

1. Theory
2. Model
3. Law
4. Experiment
5. Observation
6. Hypothesis
7. Variable
8. Data
9. Matter
10. Mass
11. Weight
12. Volume
13. Density
14. Physical property
15. Chemical property
16. Physical change
17. Chemical change
18. Solid
19. Liquid
20. Gas
21. Atom

22. Element
23. Compound
24. Mixture
25. Pure substance
26. Heterogeneous
27. Homogeneous
28. Proton
29. Neutron
30. Nucleus
31. Electron
32. Atomic number
33. Atomic mass
34. Periodic table
35. Chemical symbol
36. Metal
37. Nonmetal
38. Metalloid
39. Group
40. Period
41. Amplitude
42. Frequency
43. Wavelength
44. Crest
45. Trough
46. Transverse wave
47. Medium
48. Refraction
49. Reflection

50. Diffraction

SHORT ANSWER QUESTION

Directions: On a separate sheet of paper answer the following questions using complete sentences.

1. What is a crest?
2. What is the difference between wavelength and frequency?
3. What are some properties of waves?
4. What does the height of the wave's crest depend on?
5. What is the amplitude of a wave?
6. What do we measure frequency in?
7. How does air temperature affect the speed of sound?
8. What happens when light hits a medium it cannot pass through?
9. Which is faster- the speed of sound or the speed of light?
10. Define energy.
11. What is a medium?
12. What are some examples of mechanical waves?
13. What can sound waves travel through?
14. What are some examples of mediums?
15. What can all waves travel through?
16. What is a transverse wave?
17. What is the high point on a transverse wave called?
18. What is the low point of this wave called?
19. A transverse wave will vibrate a medium at what angle?
20. What is a longitudinal wave?
21. What are surface waves?
22. What are the common properties of waves?
23. What does the height of the wave's crest depend on?
24. What is the difference between two corresponding parts of a wave called?
25. What is the equation for the speed of a wave?
26. What is the equation to find the frequency when given the speed and wavelength?
27. What is the equation to find wavelength when given speed and frequency?
28. What type of wave gives you warmth you feel from fire?
29. What is the smallest unit of a compound?
30. Where are protons and neutrons found in an atom?
31. What is the negatively charged particle called?
32. What particle of an atom has a charge of less than zero?
33. What particles are found in the nucleus?
34. What type of charge does a proton have?
35. What type of substance has two or more elements?
36. What is the smallest unit of an element?
37. What is a compound made up of?

38. What does a solid have to reach to turn into a liquid?
39. What is the amount of matter an object takes up?
40. What is the amount of matter in an object called?
41. What is the upward force applied by a fluid on objects placed in a fluid called?
42. What are elements with some metallic and nonmetallic properties called?
43. What elements do we find on the right side of the periodic table in a sort of a triangle?
44. What is the amount of matter in an atom called?
45. Which element is found at the top left corner of the periodic table?
46. What does not normally combine with other elements?
47. What element has an atomic number of 2?
48. What is used to represent the name of an element on the periodic table?
49. What does the number of protons in the nucleus of an atom determine?
50. On what are the elements arranged in rows and columns.