

NAME _____ class _____ Number _____

WORK SHEET : STATES OF MATTER

Spelling counts. Use complete sentences when you see this sign....

1. Name the four states of matter. @

2. Define solids. @

3. Define liquids. @

4. Define gas. @

5. Define plasma. @

6. Define fluid. @

7. All matter has _____ and takes up _____

8. Liquids take up a _____ amount of space.

9. Solids have a _____ shape.

10. Gasses and plasma are called _____ because their shape is always changing.

12. Solids have a _____ volume.

13. Liquids have a _____ volume.

14. Why are solids, liquids, plasma and gas considered matter? @

15. Is water the only liquid? If not, name 5 more. @

16. Is a rock the only solid? If not, name 5 more. @

17. Is air the only gas? If not, name 5 more. @

18. What does "definite" mean? @

19. What is the most important liquid to living things? @

20. What is the most important solid to living things? @

21. What is the most important gas to living things? @

22. A _____ and _____ takes the shape of their containers.

23. A _____ will not take the shape of its container.

24. A _____ will fill the entire container.

25. A _____ will flow only sideways and down.

26. A _____ is usually flat on top.

27. A _____ changes its volume constantly.

28. A _____ never changes its volume or shape.

29. _____, _____, _____ all have mass. (It rhymes!)

30. A _____ can flow upward.

31. Can two (or more) types of matter occupy the same space at the same time? @

32. What is hardest state of matter? @

33. What is the softest state of matter? @

34. What is the state of matter that is most fun? (To you) Why? @

35. What are odor, color, weight, shape, sound and hardness? @

Put the following materials and objects into the column of their natural state of matter.

Rock	Electric sparks	Brick
Pepsi	Tomato juice	Laser light
Carbon Dioxide	Football	Wire
Lightning	Vacuum cleaner	Sweat
Blood	Milk Hydrogen	Oxygen
Bad breath	Steam	Smoke
Smell of popcorn	Chicken	Car exhaust
Fire Flames	Sand	Aurora Borealis
Air	Spit	
Nitrogen	Rain	
Water	Crayola	
Alcohol	Spoon	
Rope	Sun's corona	
	Beer	

Choose an answer and You will receive your score and answers at the end.

1. What are the characteristics of a gas?

- a. A state of matter that has free electrons.
- b. A state of matter that conducts electricity well.
- c. A state of matter that has both a fixed volume and shape.
- d. A state of matter that does not have a definite volume or shape.
- e. A state of matter that has a definite volume but not a definite shape.

2. What are the properties of a solid?

- a. A state of matter that has a definite volume but not a definite shape.
- b. A state of matter that does not have a definite volume or shape.
- c. A state of matter that has both a fixed volume and shape.
- d. A state of matter that conducts electricity well.
- e. A state of matter similar to gas that has free electrons.

3. What are the characteristics of a liquid?

- a. A state of matter that has a definite volume but not a definite shape.
- b. A state of matter that does not have a definite volume or shape.
- c. A state of matter that has both a fixed volume and shape.
- d. A state of matter that conducts electricity well.
- e. A state of matter similar to gas that has free electrons.

4. When water vapor gets cold, it turns to a...

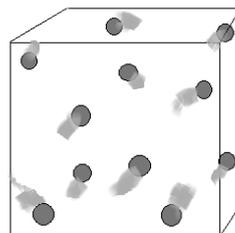
- a. Liquid
- b. Solid
- c. Raindrop
- d. Ice

5. What is an example of a solid turning into another state of matter?

- a. Breaking a chair into pieces
- b. Adding food coloring to water
- c. Tearing a piece of paper
- d. Water freezing

6. What state of matter does this picture show?

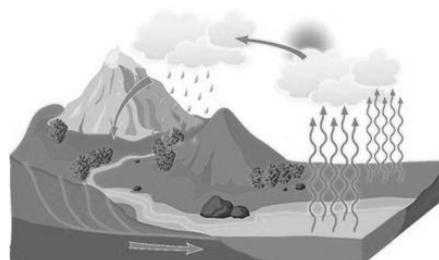
- a. Liquid
- b. Gas
- c. Solid
- d. Matter



7. What are the three stages of the water cycle?

- a. Evaporation, Condensation, Precipitation
- b. Solid, Liquid, Gas
- c. Evaporation, Precipitation, Sleet
- d. Clouds, Water, Precipitation

The Water Cycle



8. What stage of the water cycle does this picture show?

- a. Condensation
- b. Molecules
- c. Evaporation
- d. Precipitation

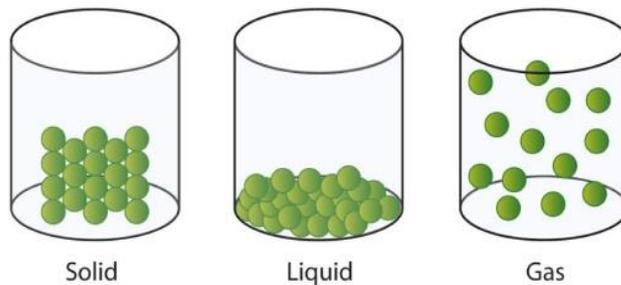


9. When you heat water it turns into a ____

- a. liquid
- b. water
- c. gas
- d. solid

10. The amount of space a liquid takes up is _____

- a. Volume
- b. Matter
- c. Solid
- d. Liquid



11. What state of matter are the particles the farthest apart?

- a. Solid
- b. Liquid
- c. Gas
- d. Plasma

12. What state of matter has no shape or volume?

- a. Solid
- b. Liquid
- c. Gas
- d. Plasma

13. The change of state from a liquid to a gas is called:

- a. Evaporation
- b. Melting
- c. Liquefaction
- d. Condensation

14. Sublimation is the change of state:

- a. From a solid to a gas and vice versa
- b. From a liquid such as water to a gas
- c. Between the states of solid and liquid
- d. From a gas such as water to a plasma

15. The change of state from a solid to a liquid is termed:

- a. Freezing
- b. Melting
- c. Condensation
- d. Evaporation