

Name: _____

Block: _____

Date: _____

Chemistry 11

Matter Review Key

Assignment

Complete the following sentences by filling in the appropriate word from the list below.

gas
liquid
solid

plasma
matter
energy

physical
chemical
evaporation

- 1) _____ is anything that has mass and volume.
- 2) The two states of matter that occupy a definite volume are _____ and _____.
- 3) The other two states of matter are _____ and _____.
- 4) _____ changes alter the identity of a substance, whereas _____ changes do not.

Identify whether each of the following changes is a physical change or a chemical change. Write a "P" on the line for a physical change and a "C" for a chemical change.

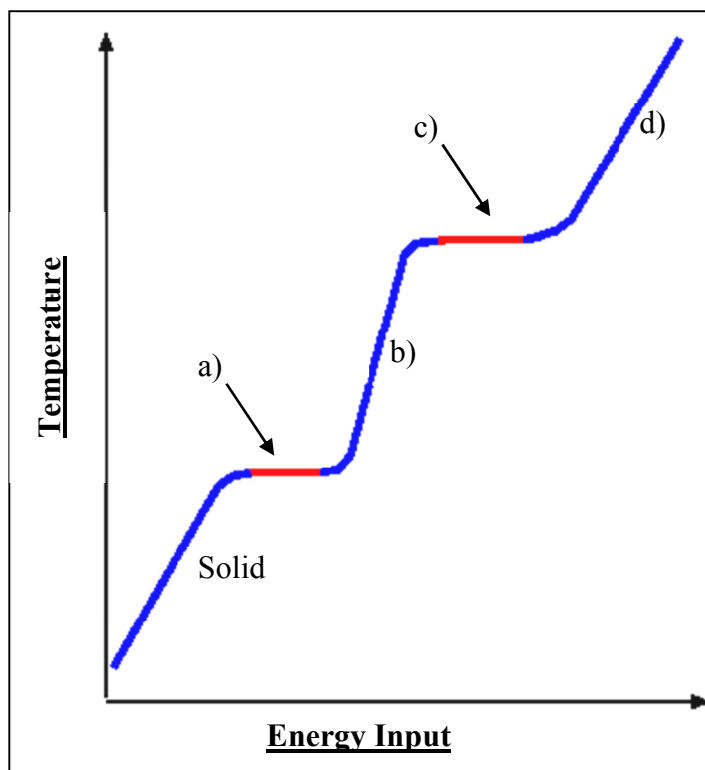
- | | |
|--------------------------------|---------------------------------|
| _____ 5) soap removing grease | _____ 9) leaves changing colour |
| _____ 6) firecracker exploding | _____ 10) glass breaking |
| _____ 7) butter melting | _____ 11) mowing the lawn |
| _____ 8) wood rotting | _____ 12) baking a cake |

Answer each of the following questions in the space provided.

15) Helium is an inert gas that does not react with other substances to form compounds. Would it be correct to say that helium has no chemical properties? Explain your answer.

16) When cement is hardening it is changing state. This process also produces heat. Using what you know about cement and concrete, explain if this process is a physical or chemical change.

7) In the space provided, name the phases and the phase changes that solid nitrogen would go through if it were heated as in the graph.



- a)
- b)
- c)
- d)

18) What variable other than temperature can cause a substance to change state?

19) Explain the difference between qualitative and quantitative observations.

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