

PW
12/10

Holiday Homework

Date _____
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1. Physics
2. Dmitri Mendeleev
3. solid
4. ~~solid~~ Vaporization
5. boiling point
6. Alchemists
7. A substance that is made of 1 type of atom & can't be ~~used~~ reduced to simpler substances.
8. Tripod stand
9. Gas jar
10. Electric stove
11. Nitrogen
12. chemical

13 higher

14 ~~freezing~~ freezing

15 sublimation

16 Preservatives are put into food & beverages to

1. Prevent from food to go bad quick.

2. Reduce risk of food borne

3. Preserve the nutritional quality of food

17 Alchemy was considered a pseudoscience because it was more on the spiritual side of science.

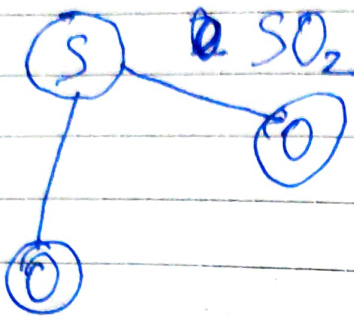
18a) water becomes ice

b) water becomes water vapour

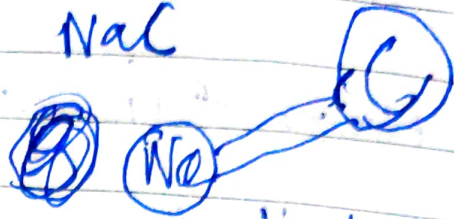
19 H_2O water molecule can't be separated into its constituents by any physical means.

2. It has 2 elements.

20



$NaCl$



210 Preservatives

Food Processing

1 Preservatives are not added to food.

But food processing is a process.

ex: Sugar, Salt, vinegar

ex: canning, proofing, drying

a Made periodic law & periodic table

b Named elements esp. carbon, hydrogen, oxygen & found out about role of oxygen in combustion & respiration

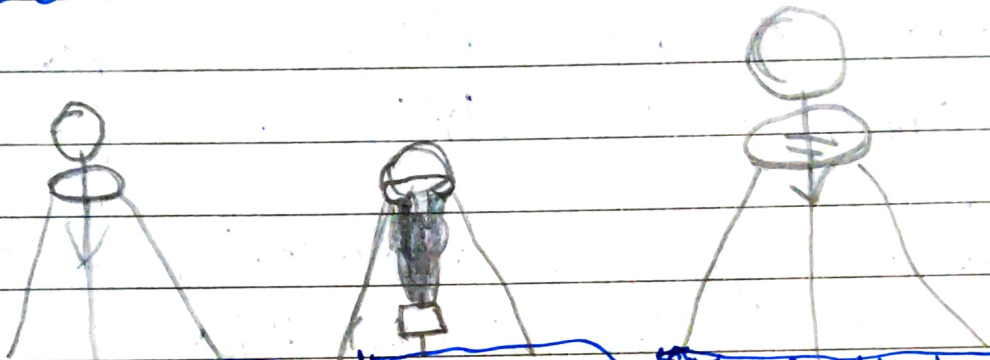
c Found out about atoms!

22 Compounds are pure substances formed by the chemical combination of 2 or more

~~elements~~ elements in a definite proportion
by mass.

- a) H_2O
- b) CO_2
- c) NO_2
- d) CaO

23



① metal ball goes through
② the ball is heated
③ the ball doesn't go through

24 All medicine must be taken under proper doctor's supervision because if not the it will harm us instead of healing us.

- 25a) Jewellery, electronics,
- b) electrical wires, taps
- c) containers, furniture.

26a. Clothes dry faster on a warm day than a cold day because the heat is more on a warm day than a cold day.

28

b. Water in a dish evaporates quicker than a bottle because the dish is ~~in~~ an open but the bottle is a closed.

c. Volatile liquids evaporate at room temperature. on faster so they're tightly closed in bottles.

29

27a. Philosophers stone isn't a stone it's more of a wax, liquid or powder.

~~27b~~ Food processing involves physical or chemical processes to transform or change the raw ingredients in food into easy usable form of food available in markets. Raw materials in food to marketable food products.

c. The preservatives helps to find extend the shelf life of cosmetics & may prevent

growth of microorganisms.

28 Sublimation is the process when a solid directly turns into ~~solid~~ gas without undergoing liquid state. Naphthalene balls kept along with woollen clothes, with passage of time they become smaller & become sublime & change into vapour. When dry ice is kept outside it directly turns into gas.

29.

TERM	Elements	Compound	Mixture
Existence properties	Made of only one kind of atoms atom.	Made of 2 or more types of element & compound on atom.	Made of 2 or more elements & compound.
Existence	atoms are present on them	Components are present in a compound in a definite proportion	Components are present in mixture in any proportion
Properties	Elements have a definite set of properties	Compounds have a definite set of properties	Mixtures don't have definite set of properties

3(a) Solids are ~~to~~ tightly packed but gases aren't so tightly packed so solids have definite shape & gases don't.

b) If we put the sugar & talcum powder in water the sugar dissolves but the talcum powder stays.

c) The water on ~~freeze~~ freezing turns into ice because when liquid is cooled then it becomes solid.