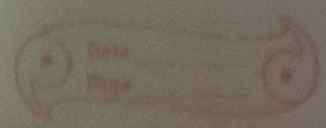


Wordle sheet

- 1) Ans) The water can change from a liquid to a gas
- 2) Ans) The process by which a solid changes directly to gas
- 3) Ans) A substance changes from a liquid to a gas (or vapor) naturally.
- 4) Ans) The physical forms in which a substance can exist, includes solid, liquid, gas & plasma.
- 5) Ans) all of these
- 6) Ans) Frictional force
- 7) Ans) all of these
- 8) Ans) Polished marble surface.
- 9) Ans) Contact force
- 10) Ans) Sliding friction
- 11) Ans) Force, direction, moving
- 12) Ans) muscular force, frictional force
- 13) Ans) motion, force
- 14) Ans) against
- 15) Ans) a) - gravitational force b) - frictional force.
c) - muscular force d) - muscular & gravitational
- 16) Ans) a) 1 metric ton h) 0.001 kg
b) 0.01 metre i) 0.00001 kg
c) 0.001 metre j) 453.592 grams
d) 3 feet k) 3600
e) 0.01 metre l) 31536000 seconds
f) 10 metre m) 86400 seconds
g) 100 metre n) 100² metres



o) 10000^2 metres

s) ~~10~~ 1000×10^6 m

p) 1000000^2 metres

t) 0.836^2 m

q) 100^2 cm

u) 0.0924^2 metre

r) 0.0001^2 metre

v) 4046.856^2 m

17) Ans) effects of friction:

- wear & tear
- friction opposes motion
- friction produces heat.

18) Ans) factors that affect friction

- smooth surface reduces friction
- extra force applied to friction causes to overcome the friction.

19) Ans) Static friction - The maximum opposing force between the object and the surface in contact with it, so long as the object remains stationary even on applying the external force, is called the static friction

Sliding friction - When the body begins to slide on a surface, the force exerted by the surface on the object is called the sliding friction.

Rolling friction - When an object rolls over a surface, the force which opposes the rolling motion of the object is called the rolling friction

20) An) disadvantages of friction :->

- Wear & tear
- Produces heat
- Opposes motion

21) An) being rubbed on a rough surface allows the matchstick to catch fire, cause when the matchstick is being scrubbed on the rough surface, the heavy friction opposing it allows it to catch fire.

22) An) The sole of shoes get worn out cause of the force of friction / frictional force.

- 23) a) 1 foot e) 200 metres
b) ~~20~~ 30.48 cm f) 2 millimetres
c) 0.020 m g) 0.9144 metres
d) 420 cm

24) An) APPLIED FORCE - Push / pull that acts on an object

Tension - The state of being stretched tight
friction - force that opposes the relative motion between the 2 surfaces in contact with each other.

3) Ans) High Solids:

Not compressible

strong intermolecular force

~~small~~ less intermolecular space

liquid-

Almost incompressible

less intermolecular force as compared to solids.

more intermolecular space as compared to solids.

Gas-

Compressible

least intermolecular force

most intermolecular space

2) a) Most substances change their state by

applying heat cause, when the heat

passes through the molecule, they start to

vibrate and they get away from each other

reducing the intermolecular force and

increasing the intermolecular space.

Solid $\xrightarrow{\text{heat}}$ liquid $\xrightarrow{\text{heat}}$ gas

2) a) Machines are oiled time to time so

that they don't get rusted and they run

smoothly as they did

b) An object thrown upward comes down

due to gravitational force.

c) Powder is sprinkled on carrom board to reduce friction.

28) Ans) We can increase friction by:
rough surface

straight ~~inclined~~ surface

We can decrease friction by:

smooth surface

inclined surface

29) Ans) If the cartilage wears off, the the smoothness in our joint will reduce.

30) Ans) The mass of a body is the quantity of matter contained in it.

SI Unit - kilogram (kg)

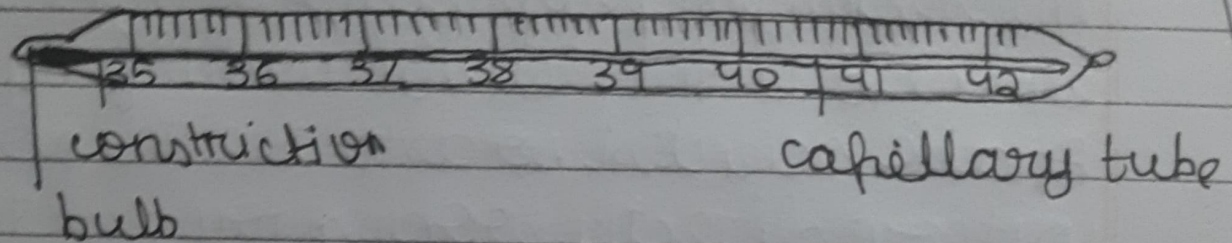
CGS - gram (g)

FPS - pound (lb)

- 31) a) 0.2 metric ton d) 0.250 kg
b) 1.5 quintal e) 100g
c) 4.536 kg f) 5×10^{-6} kg

32) A clinical thermometer has markings from 35°C to 42°C . It has a slight bend/kink in the stem just above the bulb. This kink is called constriction. This constriction prevents the mercury from falling back all by itself. The temperature of a healthy person is 37°C . This temp. is marked by a red arrow.

Clinical thermometers marked in $^{\circ}\text{F}$ are also available. They have marking from 95°F to 110°F . The red arrow indicating the temperature of a healthy person is at 98.6°F



- 33) a) A) S.I. unit of length - metre, time - second, mass - kg
b) A) Centigrade
c) A) 1000 kilograms
d) A) ~~clinical~~ ice
e) clinical
f) $37^{\circ}\text{C} / 98.6^{\circ}\text{F}$

34) A) Take 100 ml of water in beaker A and dissolve 2-3 crystals of potassium permanganate in it. You will get a deep purple coloured solution. Take 10 ml of this solution and mix it with 90 ml of water in beaker B. You will observe that the colour of the solution is not as dark as the solution in beaker A. This experiment shows that a single crystal of potassium permanganate is made up of a large number of tiny particles which mixes with water.