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| --- | --- | --- |
| Basic physical quantity | SI unit | Symbol |
| Electric current | ***Ampere*** | A |
| Amount of substance | ***Mole*** | mol |
| Thermodynamic temperature | ***Kelvin*** | ***k*** |

22.

1. State which gas diffused faster. (1mk)

* ***Ammonia gas***

1. Explain how the rate of diffusion depends on the density of a gas. (2mks)

* ***The denser the heavier the particles and hence the slower the gas.***

1. Explain the effect of performing the experiment above at a higher temperature. (2mks)

* ***The rate at which Ammonia gas travels towards B will be higher hence less time taken to form the white deposit.***

1. Convert the following; (3mks)
   1. 298K to oC.

**298- 273 =250C**

* 1. -100C to K

-**10 + 273 = 263K**

* 1. 00C to K

**0 + 273= 273K**