

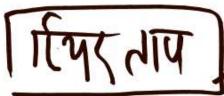
### Gaseous law





## बॉयल का नियम (Boyle's law)

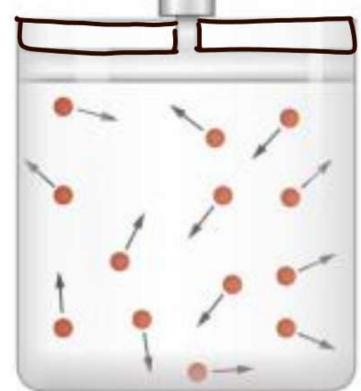
As volume increases, pressure decreases

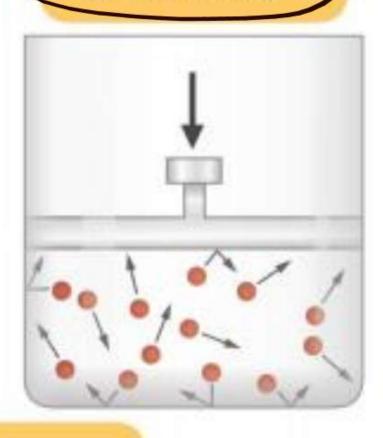


निश्चित भात्रा का आयत्न- दाव, क्यूर



As volume decreases, pressure increases

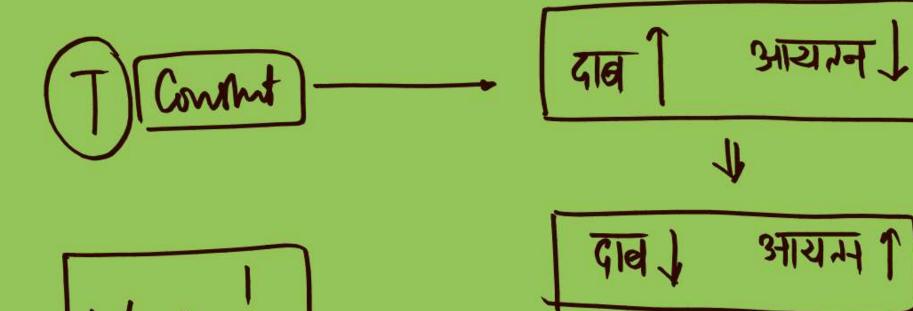


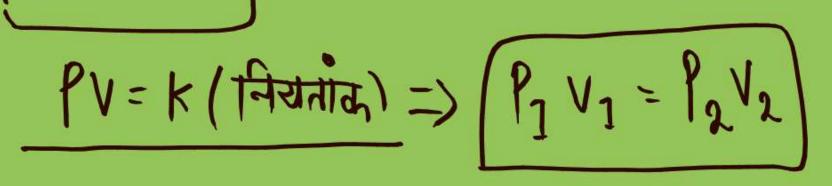


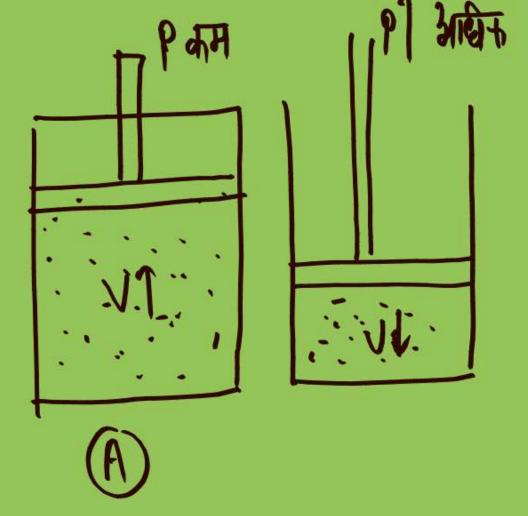


pV = k  $p_1V_1 = p_2V_2$  p = k/V

# र्गेष मिर्श्वित अवश







## रसायन विज्ञान : भौतिक रसायन विज्ञान

#### Main Topic

Gaseous law

Radioactivity

Solution

Oxidation and Reduction

Physical and

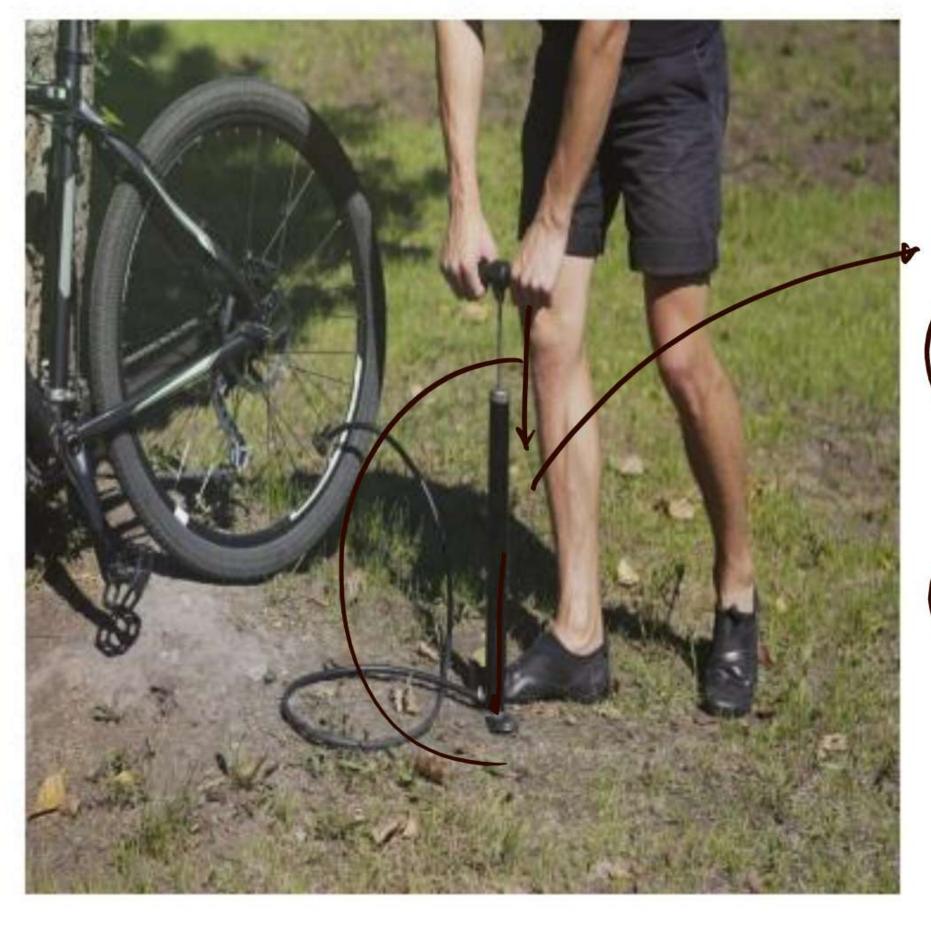
Chemical Reactions and

**Chemical Changes** 

**Energy Changes** 

**Acid Base and Salt** 

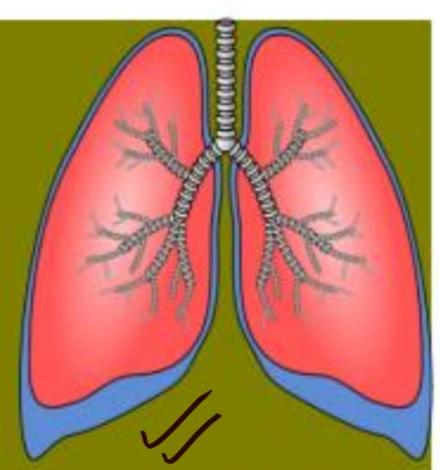
**Chemical Bond** 



साइमलमें प्रम्

# Examples of Boyle's Law

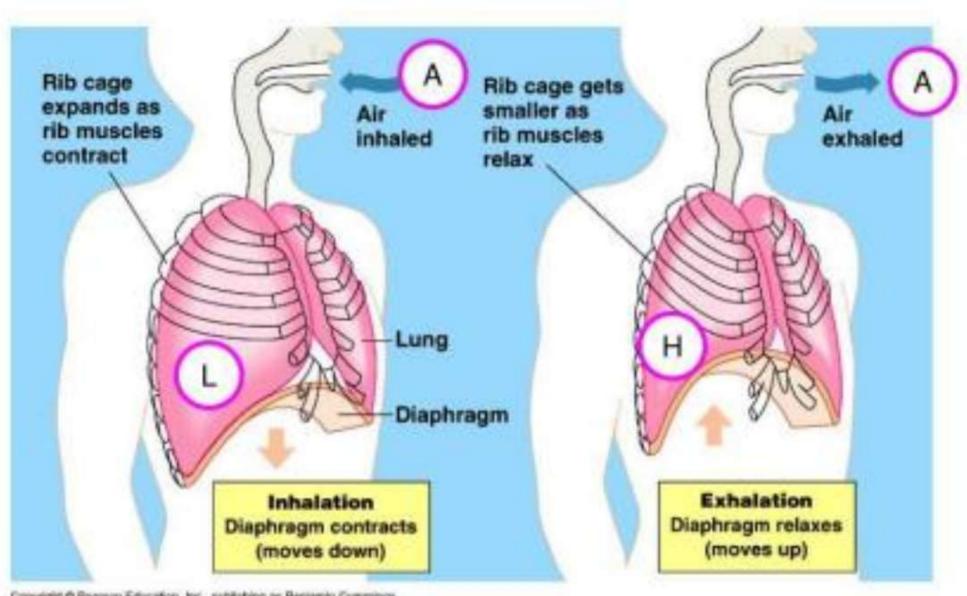




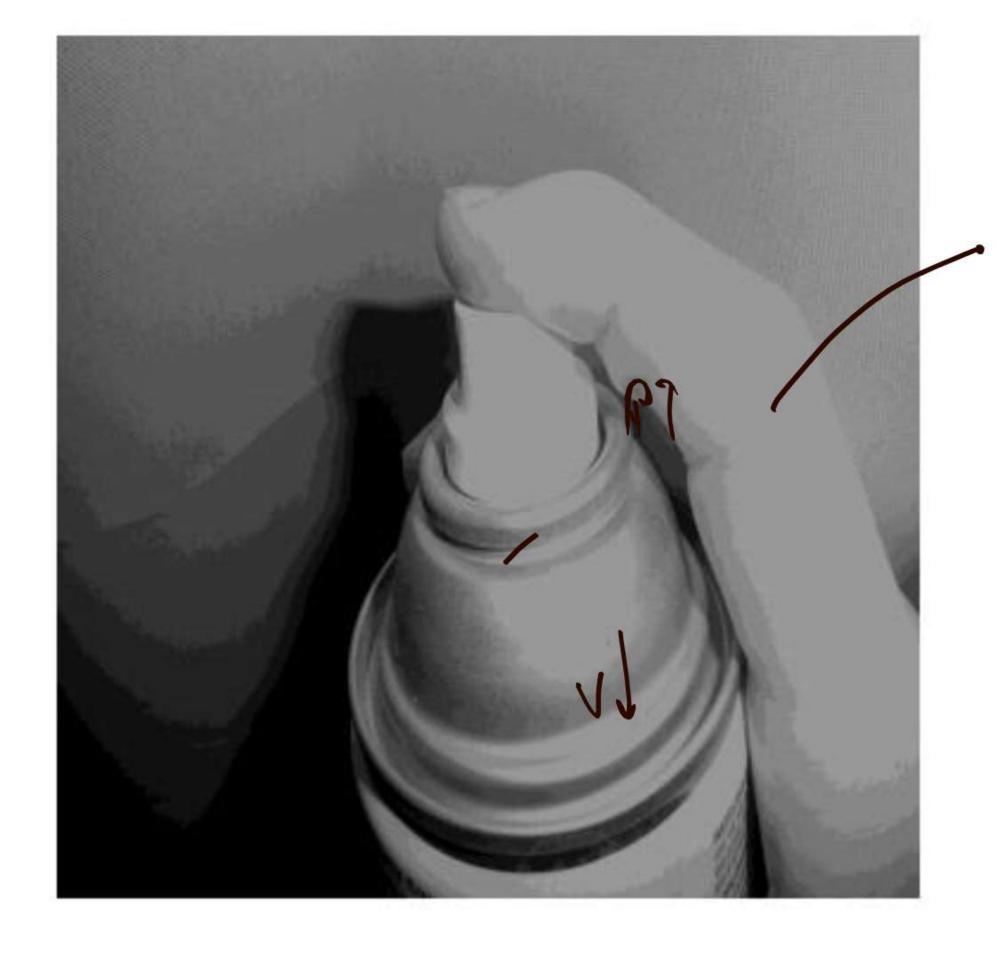
A scube diver



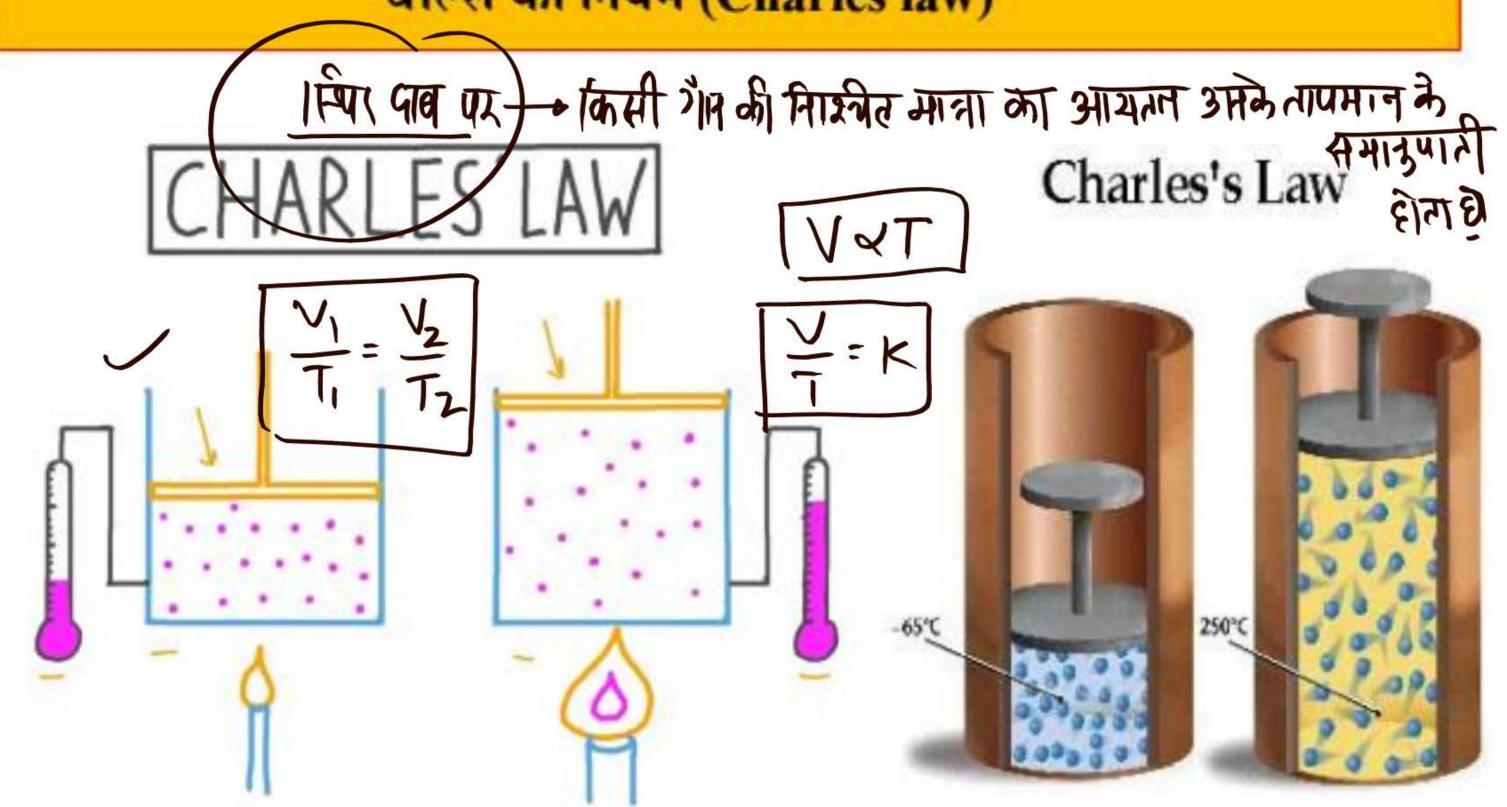
## Breathing & Boyle's Law

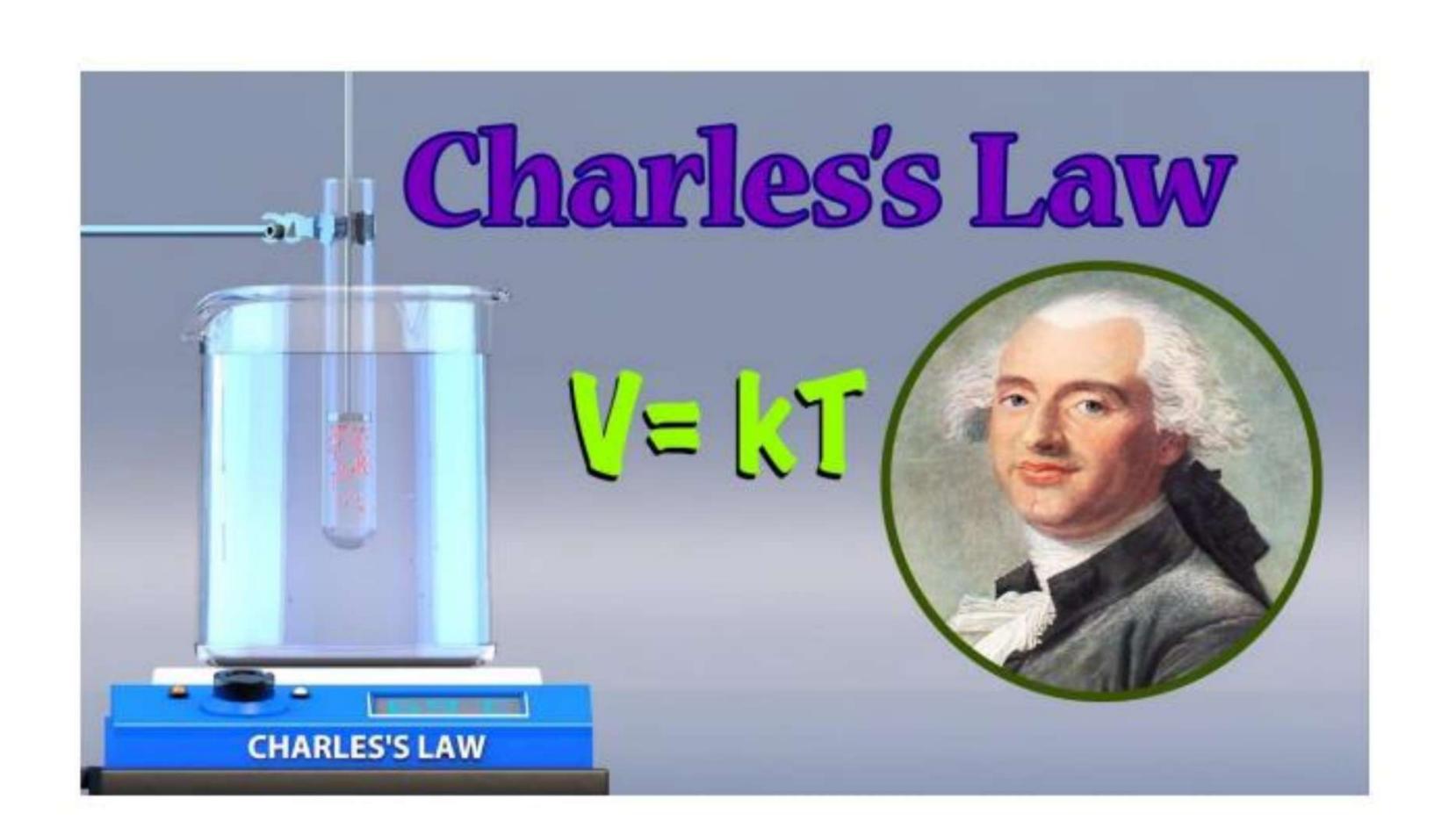


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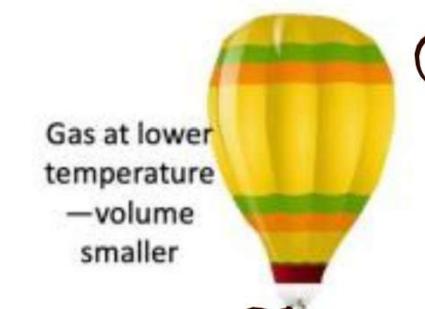


## चार्ल्स का नियम (Charles law)





#### Charles's law in everyday life



Use burner to heat air in balloon

Gas particles move faster—balloon canopy stretches



Larger
balloon—
displaces
more air
balloon rises
& hot air less
dense



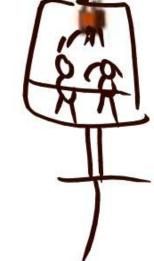
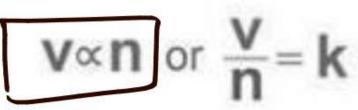


Image FreeSVG PD

#### Avogadro's law

मैंस की मात्रा (h) व अमें आयम्म (v) सम्बय्ध

Avogadro's Law's Formula

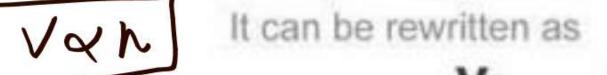


Where,

V = Volume of gas

n = Numbers of moles of the gas

k = a Constant



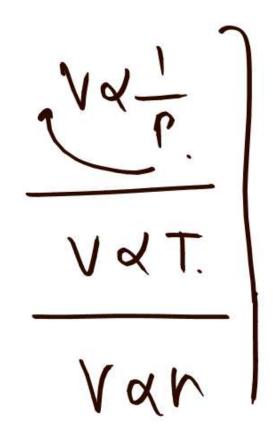
$$\frac{V_1}{n_1} = \frac{V_2}{n_2}$$

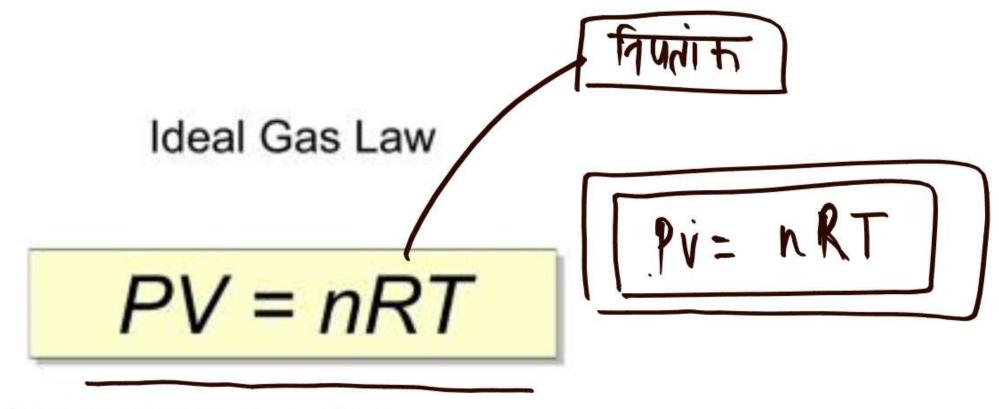






#### **Ideal Gas Equation**



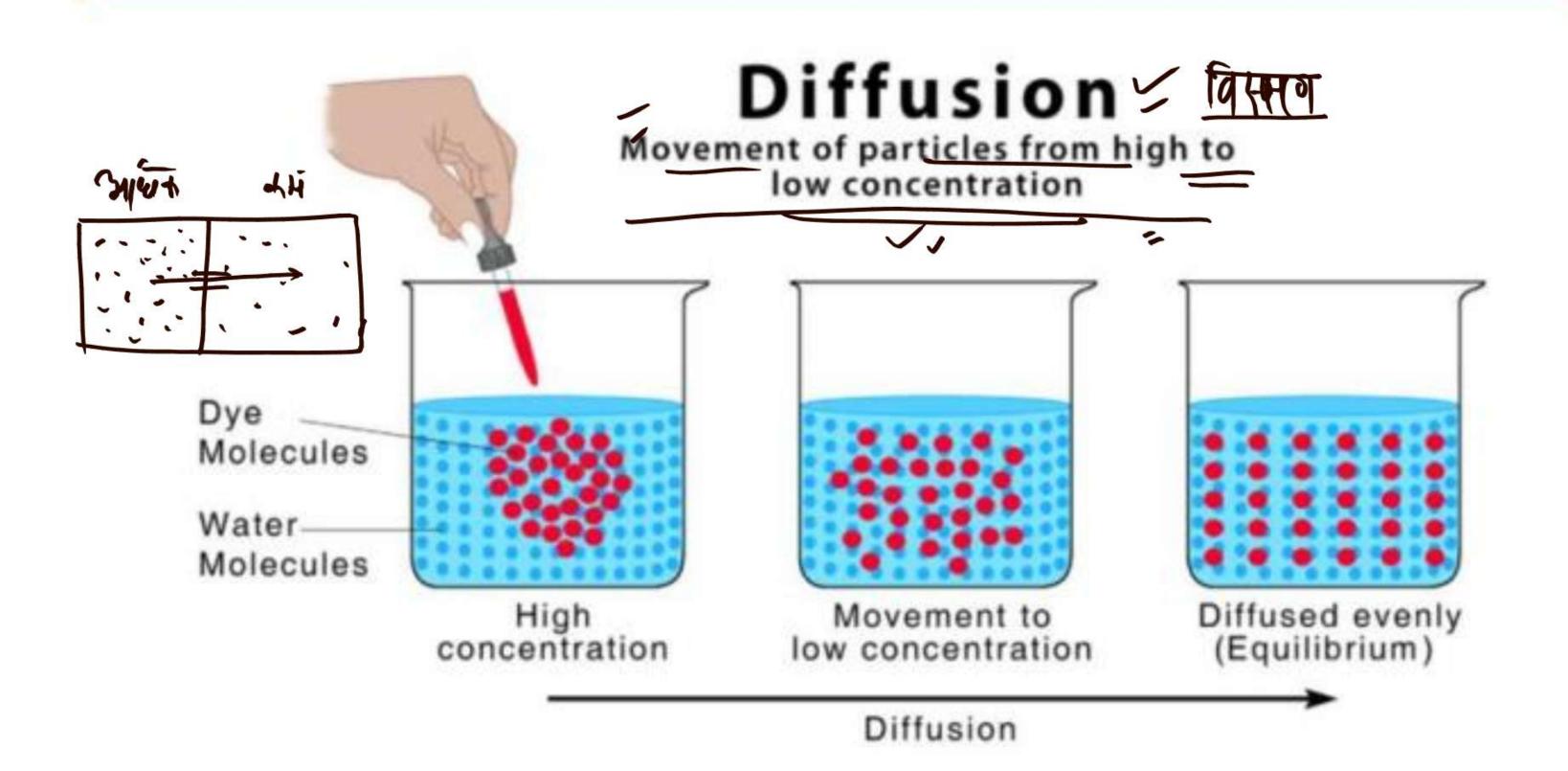


Brings together gas properties.

Can be derived from experiment and theory.



#### Graham's law of diffusion



Diffusion Rat.

स्पिर्ताप व पव पर्षिकिसी नेम के विसरण की पर

उसके चन्त्व के वर्गमून के त्यूतकमनुपाती हीती है

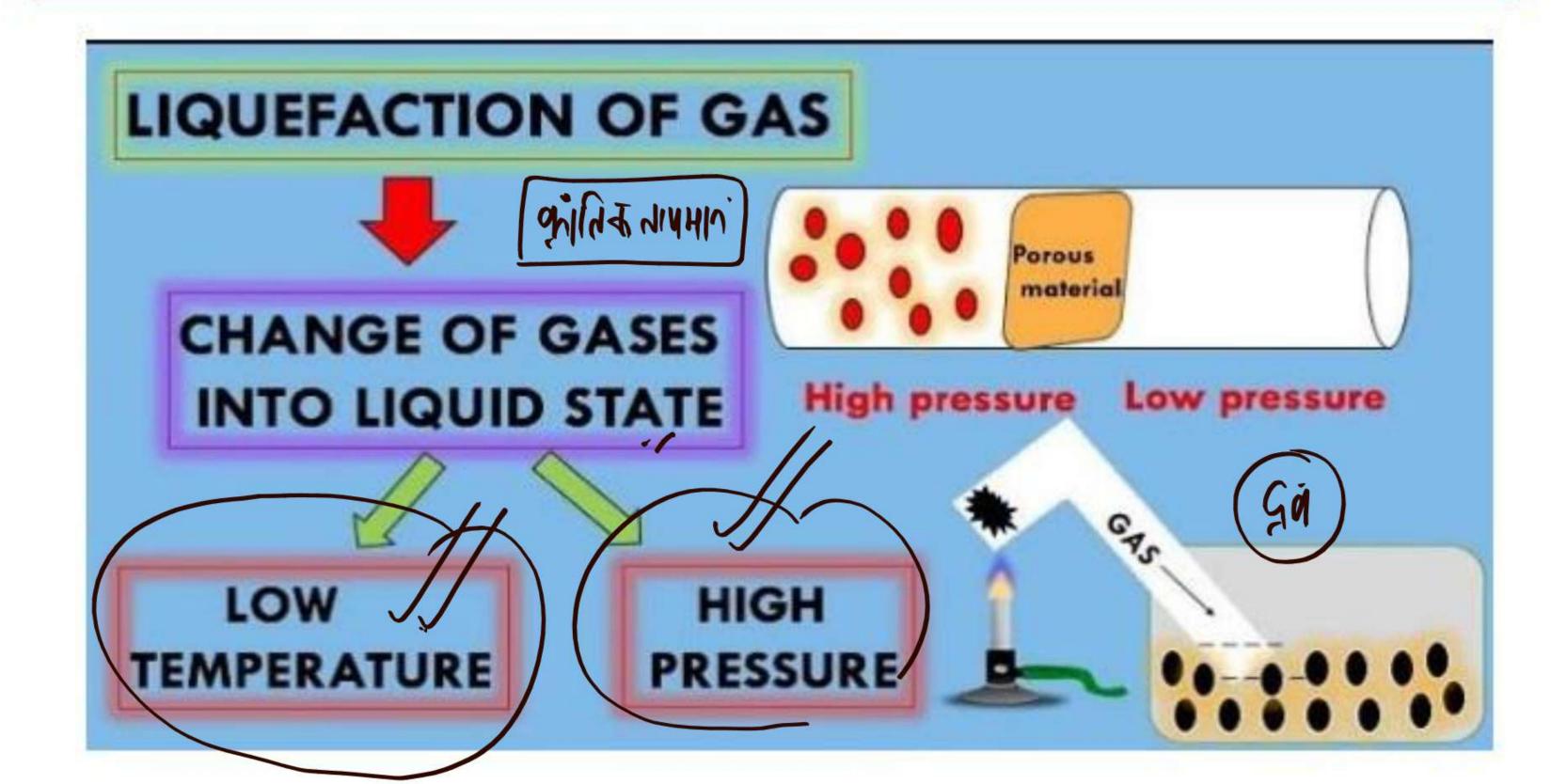
$$\frac{\delta_1}{-\delta_2} = \frac{1}{\delta_2}$$

अरण्योग अगरवरी अगरवरी

# Atomic Number | अगुभर बड़ने पा - विसर्ग की रा किम) थ Note: भा भा मा को गुल्ला पाली होगा र



#### Liquidation of Gas



## भौतिक रसायन विज्ञान

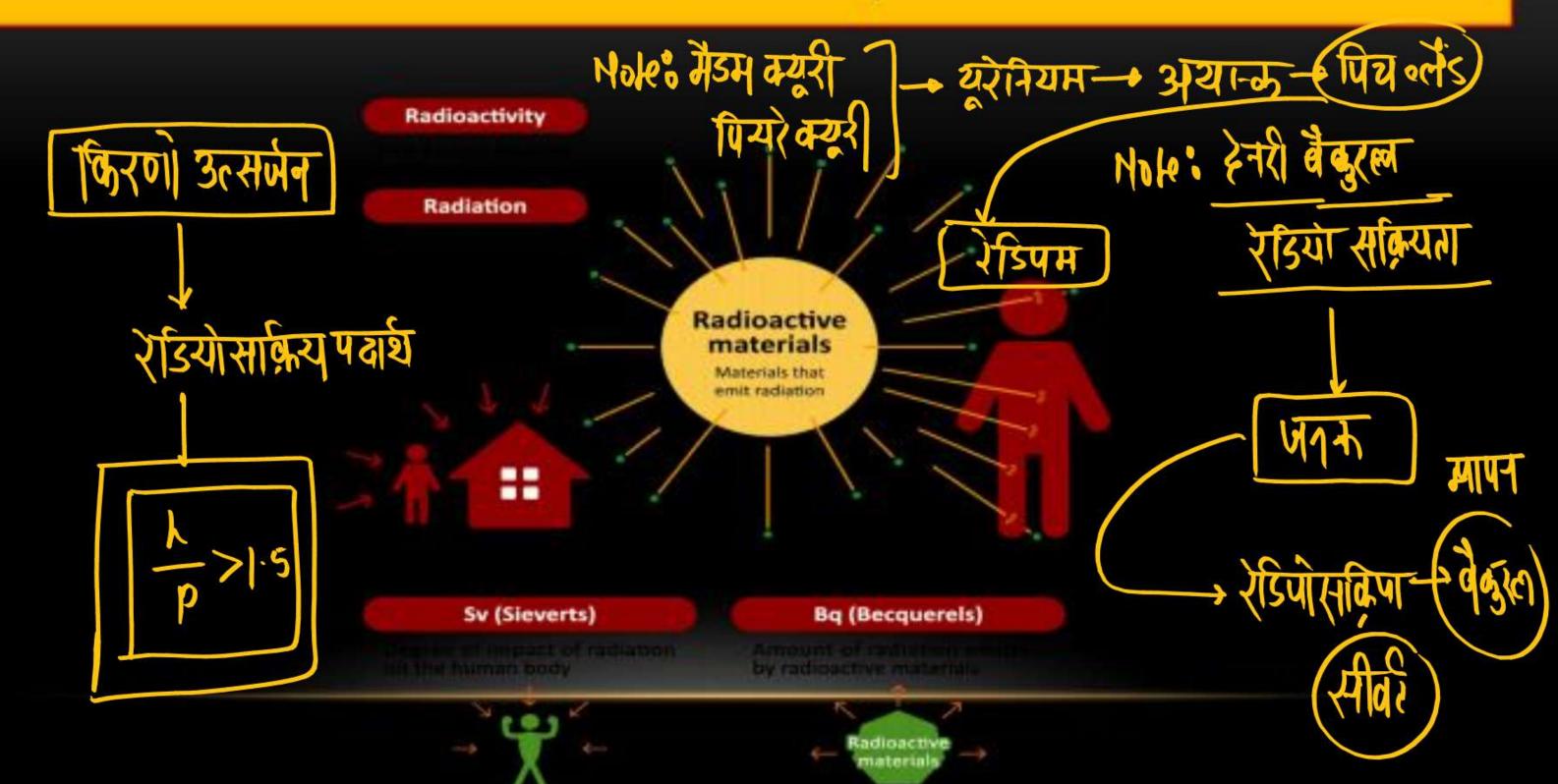
भाग - 3

रेडियो सक्रियता

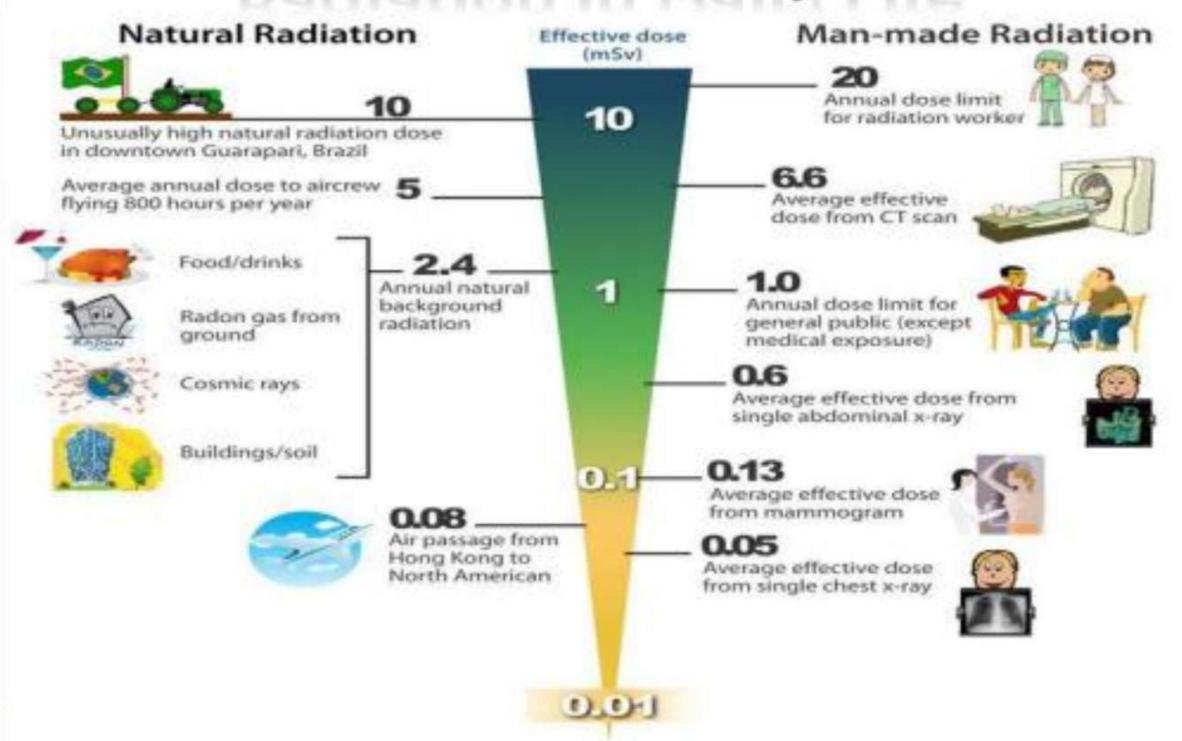
रासायनिक बंधन

ऑक्सीकरण और अपचयन

#### Radioactivity



#### Radiation in Daily Life

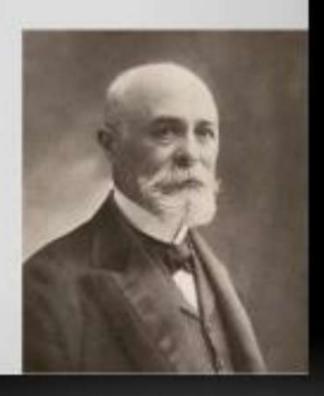


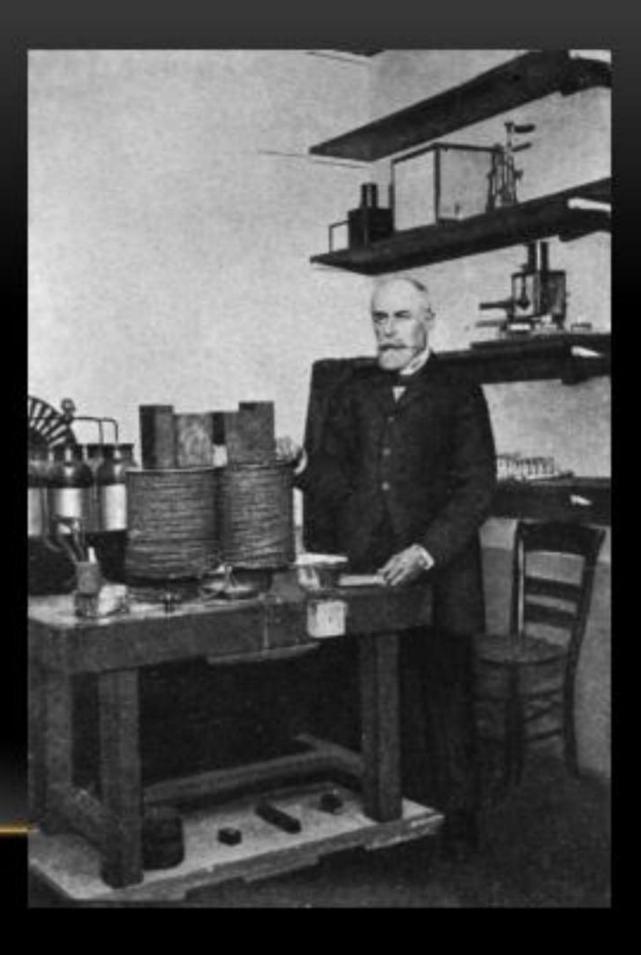
## 1896 - Henri Becquerel

- Discovered Radioactivity
- Phosphorescence
  - o Uranium salts

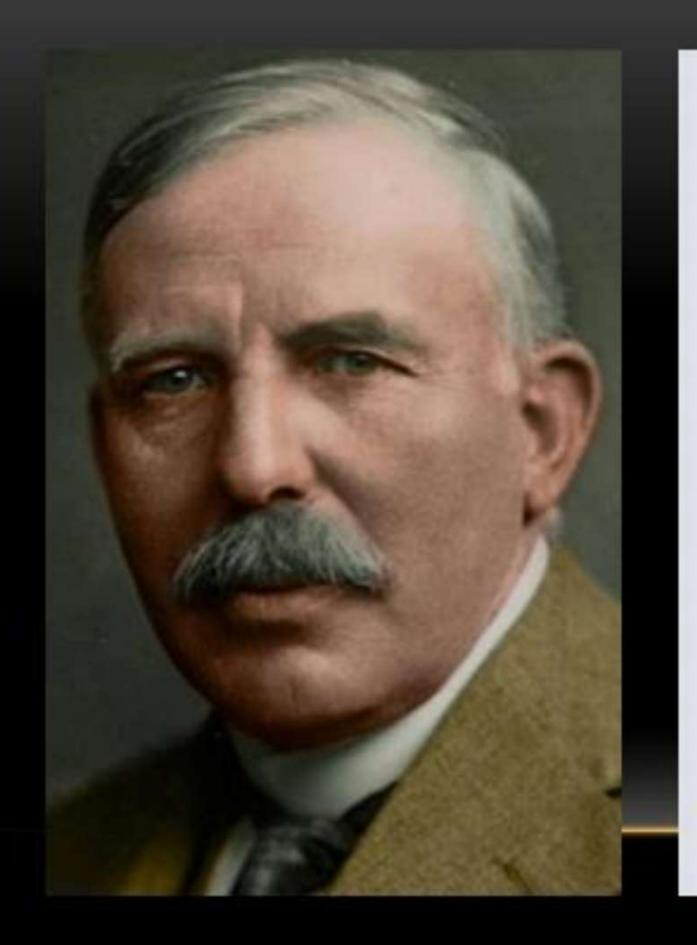


Nobel Prize in 1903









# Inventor Figures



Paul Ulrich Villard

Gamma ray is discovered by
French chemist and physicist, Paul
Ulrich Villard in 1900 while
studying the radiation emanating
from Radium, Polonium and
Uranium. He finds that gamma-ray
can not be deflected by magnetic
fields.

#### Radio Active Rays

