Some Basic Concepts of Chemistry



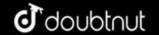
Bhaskar Bhaiya IIT Roorkee





OBJECTIVES

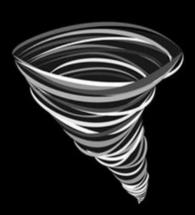
- Matter /
- Classification of Matter

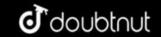


Matter

Anything which has mass and occupies space is called matter.







Quiz:

Which of the followings are matter?

- a) Neon gas
- b) Light
- c) Fire
- d) Ink
- e) Sun
- f) Soul





SUPER FEATURES

JEE/NEET Level Classes

1. SUBJECT (PCM, PCB, PCMB+ENGLISH)

2. JEE/NEET (Preparation of JEE/NEET From Class 11th) Believers 2022-23

CLASSES OF LAST YEAR'S
BELIEVERS BATCH
IN THIS COURSE
(PCM, PCB, PCMB+ENGLISH)

YE TOH HOGA HI!

Detailed Lectures



One Shot Lectures

YE TOH HOGA HI!

Chapter Test

Chapter Notes

Practice Questions



COUPON CODE:

BELIEVERS

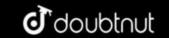
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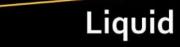


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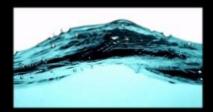
States of Matter

Solid

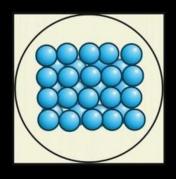


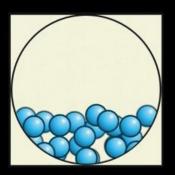
Gas

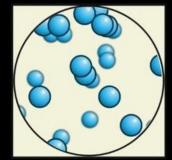


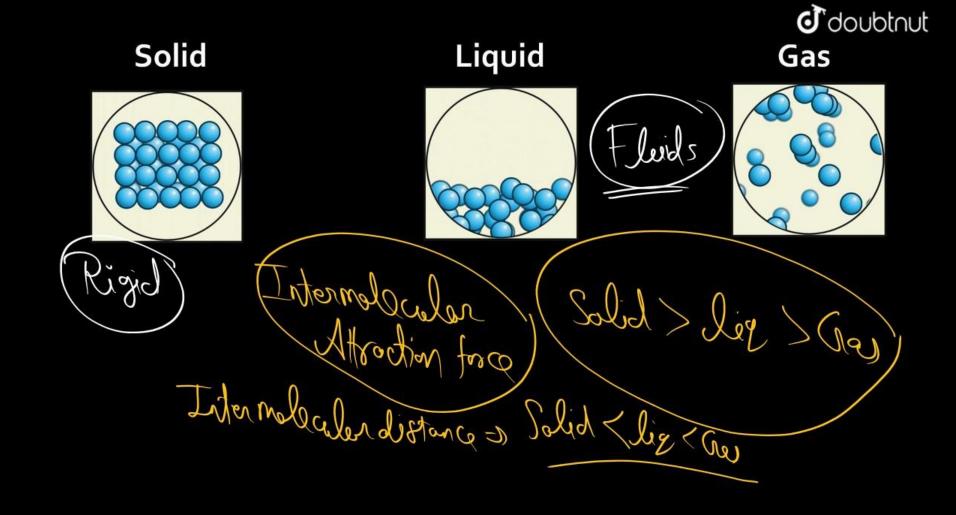


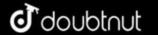






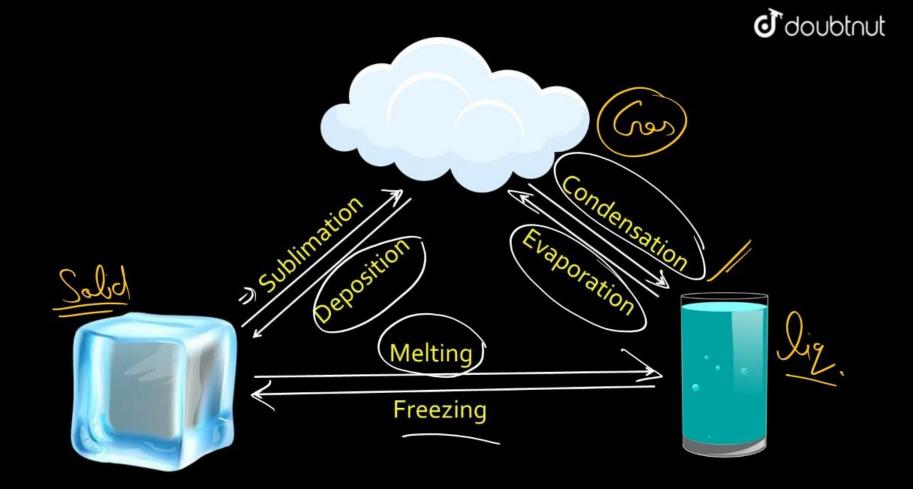


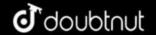




Changing States of Matter

All three states of matter are interconvertible by changing the conditions of Temperature and Pressure.

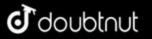




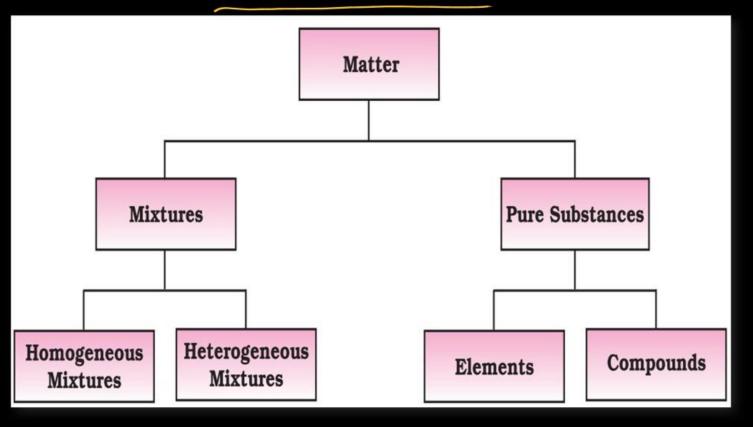
Quiz:

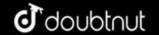
The reverse process of Evaporation is –

- (a) Melting
- (b) Freezing
- (c) Deposition
- (d) Condensation



Classification of Matter

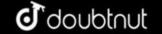


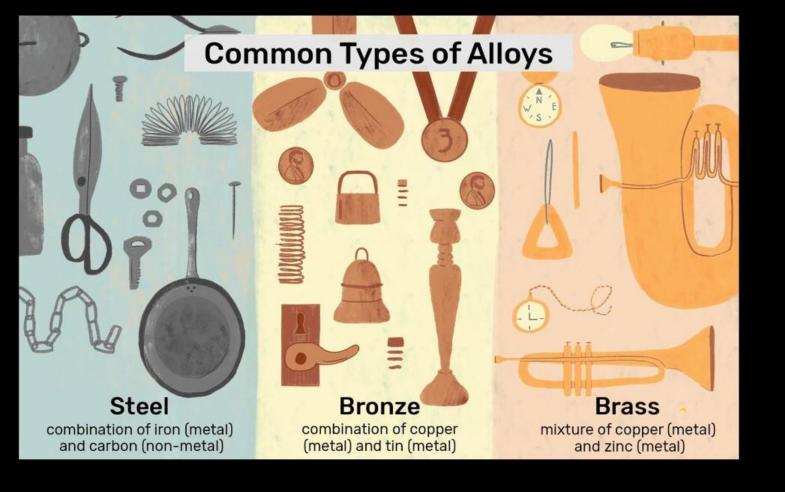


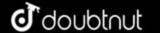
Mixture

Mixture – A mixture contains two or more types of particles which may be present in it in any ratio.









Homogeneous mixtures have the same composition throughout their volume.

- You can't see the individual particles in a homogeneous mixture.
- It is not easy to separate the components in homogeneous mixture.

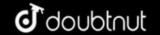




Heterogeneous mixture has varied compositions throughout its volume.

- Unlike homogeneous mixtures, these mixtures don't blend perfectly.
- It is easy to separate the components in heterogeneous mixture.

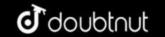




Pure Substance

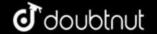
Pure Substance – When all constituent particles of a substance are same in chemical nature, it is said to be a pure substance.





Particles in pure substance may exist as atoms or molecules.

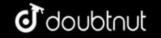
- Particles of an element consist of only one type of atoms. Example Gold, Cu, Fe
- Particles of an compound consist of only one type of molecules.
 Example Water, CO2

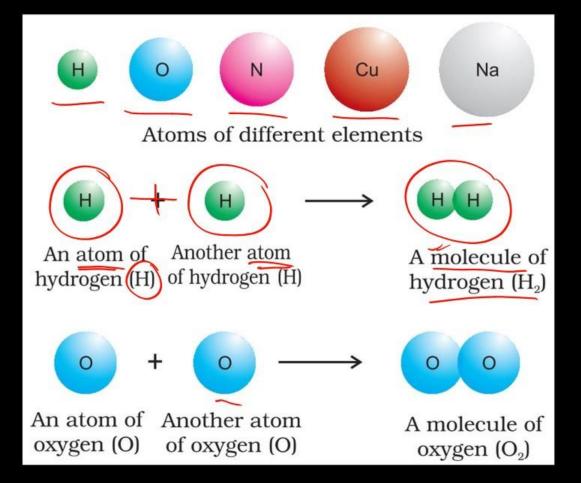


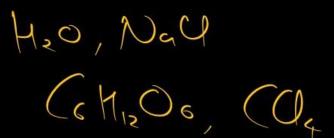
Atoms and Molecules

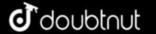
Atoms – Atoms are defined as "the basic building blocks of matter". It is the smallest constituent unit of matter that possess the properties of the chemical element.

Molecules - Molecules consist of one or more atoms bound together by /attraction force(Chemical bonds).





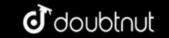




Allotropes

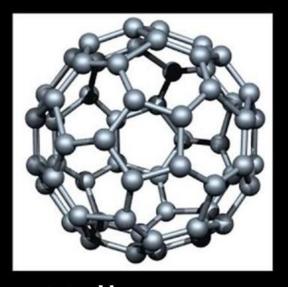
Allotropy or allotropism is the property of some chemical elements to exist in two or more different forms, in the same physical state, known as allotropes of the elements.

Allotropes are different structural modifications of an element.





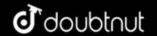




Graphite

Diamond

Fullerene



Quiz:

Which of the followings is / are allotrope of Carbon?

- a) Diamond
- b) Graphite
- c) Fullerene
- d) All of the above

THANK YOU

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🏰 🧑 🎯 @bhaskardev31

