

What are the types of inertia? Give an example for each type.

State Newton's laws of motion

State and prove the law of conservation of linear momentum.

List any five properties of light?

Differentiate the eye defects: Myopia and Hypermetropia.

What is a nuclear reactor? Explain its essential parts with their functions.

Compare the properties of alpha, beta and gamma radiations.

a) What are the advantages of LED TV over the normal TV?
b) List the merits of LED bulb.

Give the salient features of "Modern atomic theory".

Derive the relationship between Relative molecular mass and Vapour density.

Write notes on various factors affecting solubility

Effect of Temperature

Effect of Pressure :

What is called homologous series? Give any three of its characteristics?

How is ethanol manufactured from

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sugarcane?

How does the light dependent reaction differ from the light independent reaction? What are the end products and reactants in each? Where does each reaction occur within the chloroplast?

Enumerate the functions of blood.

What is transpiration? Give the importance of transpiration.

Why are leucocytes classified as granulocytes and agranulocytes? Name each cell and mention its functions.

With a neat labelled diagram describe the parts of a typical angiospermic ovule

Explain with an example the inheritance of dihybrid cross. How is it different from monohybrid cross?

What are the effects of hybrid vigour in animals.

With a neat labelled diagram explain the techniques involved in gene cloning

What is the importance of rainwater harvesting?

Enumerate the importance of forest.