



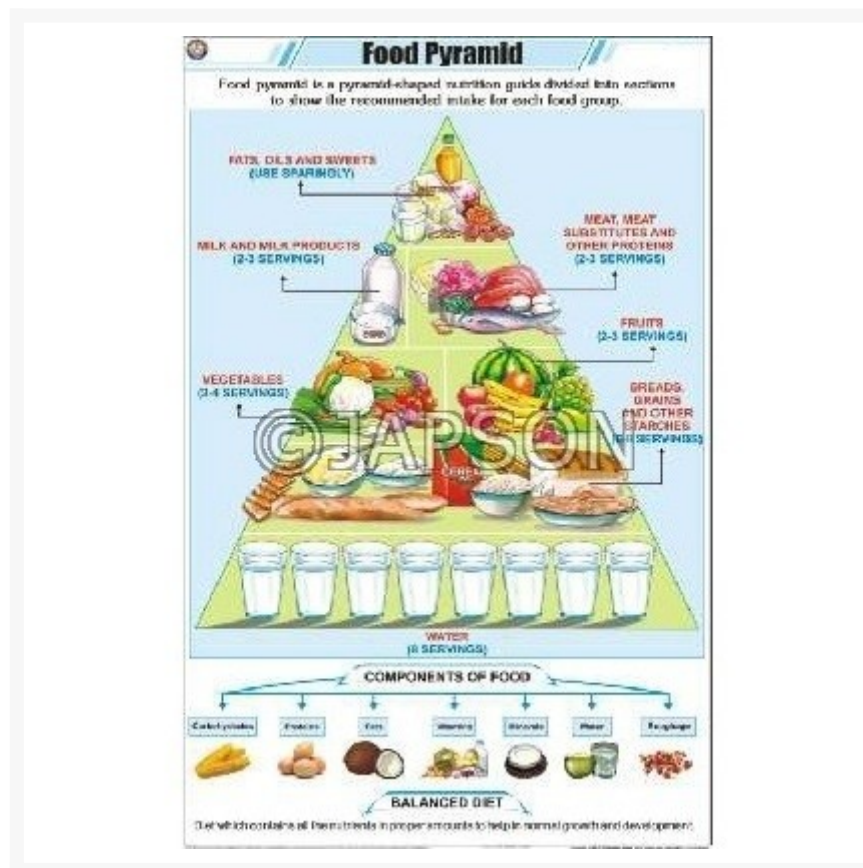
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General Science (II) Charts, School Education

Product Image



Description

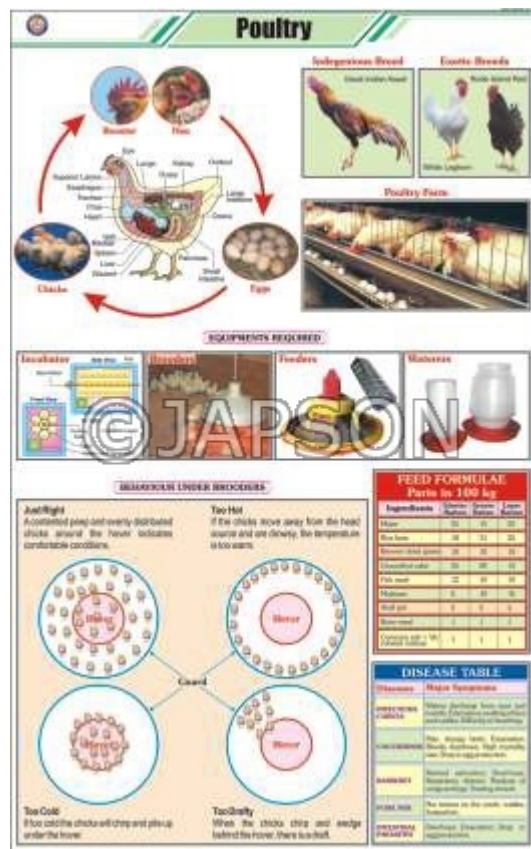
Standard Size: 58x90cms

Language: English

Laminated Paper Charts with Plastic Rollers. These Charts have technically accurate and detailed description in vivid colours.

Note: Based on minimum order quantity conditions, Charts can be customized to your requirements in terms of CONTENT, LANGUAGE, SIZE, etc. Please write back to us for discussion.

A. Charts, Poultry

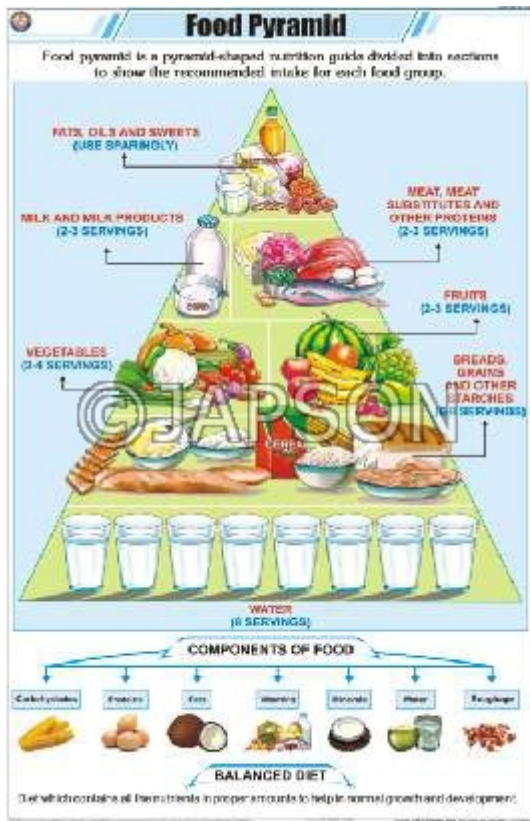


B. Charts, Apiculture

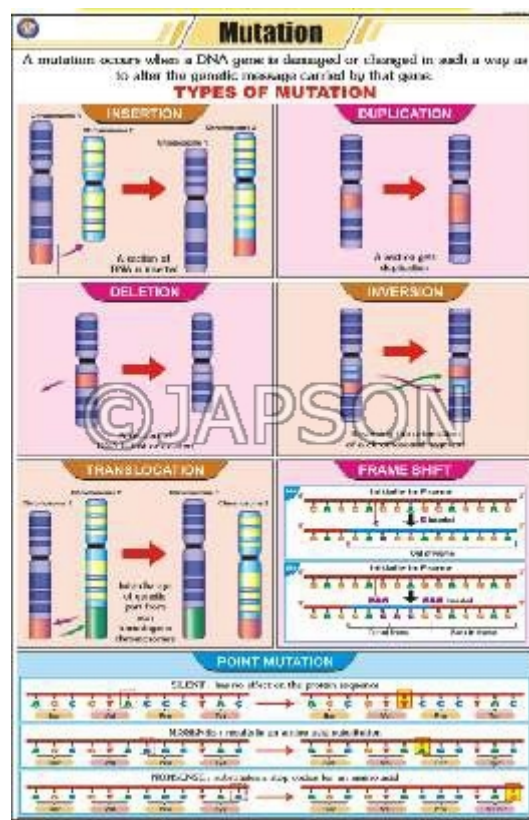


C. Charts, Food Pyramid

D. Charts, Soil - A Natural Resources

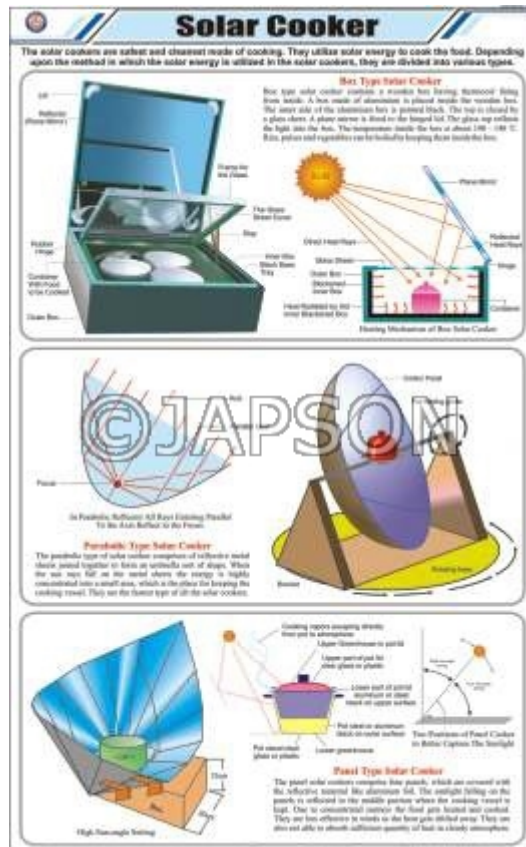
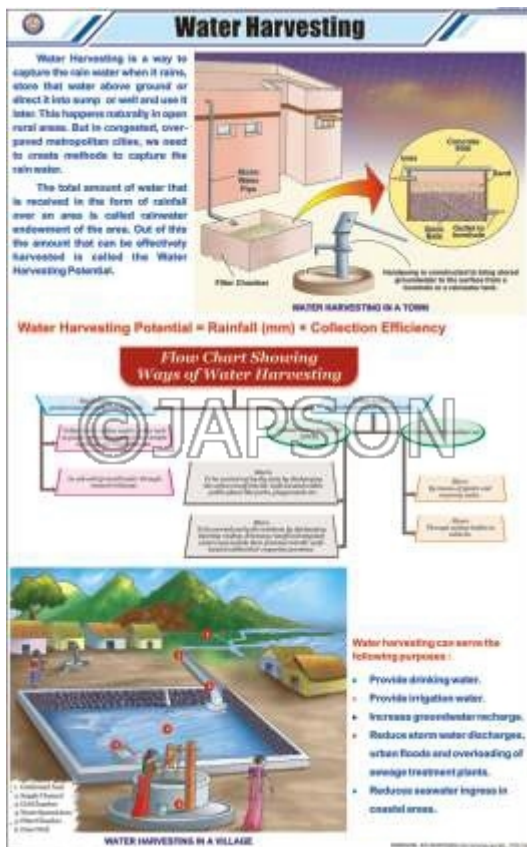


E. Charts, Fire and Fire Extinguishers F. Charts, Mutation



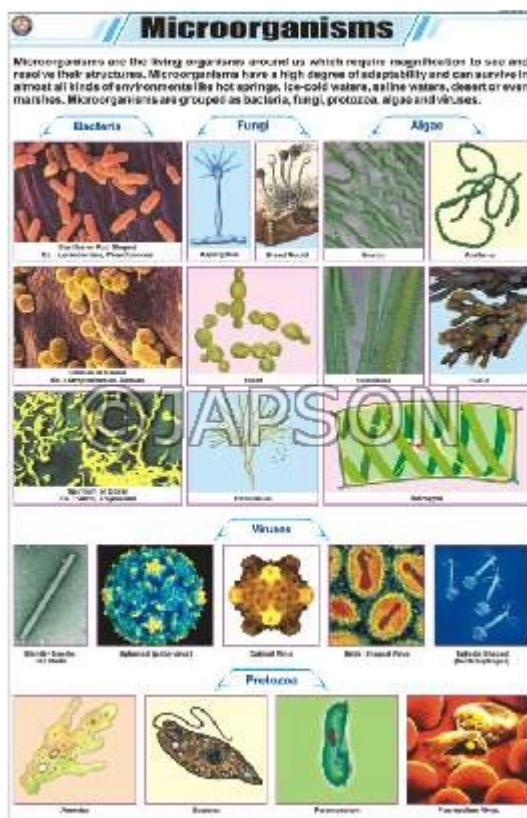
G. Charts, Water Harvesting

H. Charts, Solar Cooker



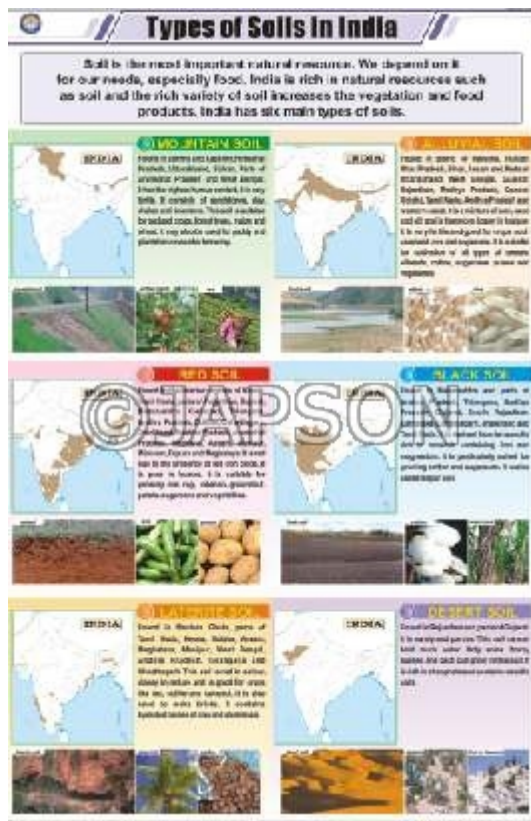
I. Charts, Microorganisms

J. Charts, How Soil is Formed and Soil Profile



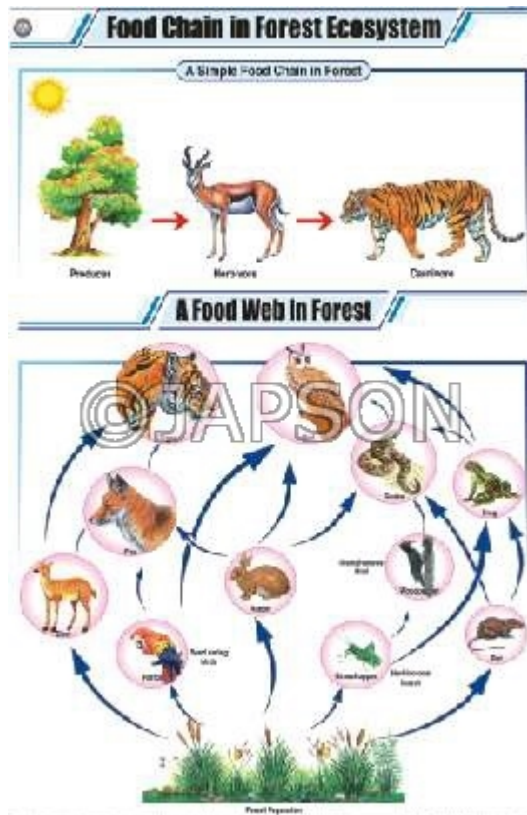
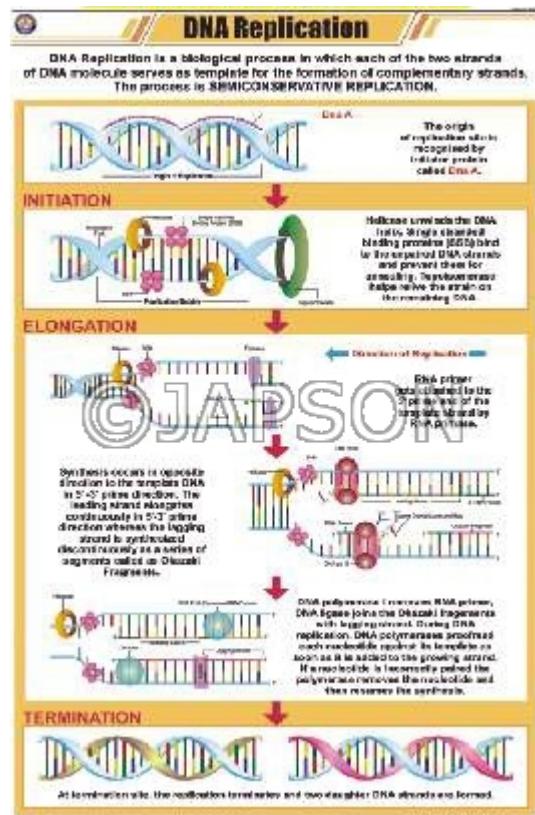
K. Charts, Types of Soils in India

L. Charts, Carbon Cycle



M. Charts, DNA Replication

N. Charts, Food Chain in Forest Ecosystem



O. Charts, Osmosis

P. Charts, Purification of Water

Osmosis

Osmosis is the net movement of freely moving water molecules from a region of their higher concentration to a region of their lower concentration through a partially permeable membrane.

The pressure exerted by freely moving water molecules in a system is called the water potential. A solution with a high water potential has a high number of freely moving water molecules.

Diagram 1: Hypotonic Solution

Water moves into the cell, causing it to swell.

Diagram 2: Hypertonic Solution

Water moves out of the cell, causing it to shrink.

Osmosis in Animal Cells & Plant Cells

Animal Cell in Hypotonic Solution

Plant Cell in Hypotonic Solution

Animal Cell in Hypertonic Solution

Plant Cell in Hypertonic Solution

Purification of Water

BOILING

It is a simple method of water purification. Boiling kills many bacteria and micro-organisms.

DISTILLATION

99.9% pure water can be obtained by distillation. It involves boiling of water to produce water vapours. The vapours on cooling condense as a pure liquid.

FILTRATION

Slow sand filters are used for treating raw water to produce a potable product. Apart from impurities, it also removes 90-99% bacteria.

CHLORINATION

Chlorination is one of the most common and relatively cheap method of water purification. Chlorine tablets deactivate most of the micro-organisms.

REVERSE OSMOSIS

R.O. is used to purify water on large scale to remove salts and impurities in order to improve the colour, taste or properties of fluid. Mechanical pressure is applied to impure water to force pure water through a semi-permeable membrane.

DOMESTIC R.O. SYSTEM

Q. Charts, Sericulture

Sericulture

Life Cycle of Silkworm (Bombyx Mori)

There are four different species of silk worms:

1. Mulberry
2. Tassar
3. Muga
4. Eri

Stages of Production:

1. Rearing silkworms
2. Spinning silk
3. Reeling
4. Weaving

R. Charts, Enzymes

Enzymes

Enzymes are globular proteins with enormous catalytic power with which they greatly enhance the rate at which specific reactions approach equilibrium by lowering the activation energy. Activation energy is the minimum energy required to initiate a chemical reaction.

Structure

Mechanism of Enzyme

$$E + S \rightleftharpoons ES \rightarrow EP \rightleftharpoons E + P$$

Enzyme Lower the Activation Energy of a Reaction

Classification of Enzyme

- 1. Oxidoreductase / Oxidoreductase
- 2. Transferase
- 3. Hydrolase
- 4. Lyase
- 5. Ligase

Factors Affecting Enzyme Activity

Effect of Inhibitors on Enzyme

Disclaimer

The Products details given on this page are indicative in nature and JAPSON reserves the right to change them without prior notice. Buyer is also requested to re-check the specifications and other features of product at the time of order as product development is a continuous process and minor modifications may be made to design based on latest availability, process and design.