

Components of Food Nutrients and Their Importance for a Healthy Body



What is Food and Why Do We Eat?

Food's Role

Essential for all animals, including humans.

Components

Food contains different components: nutrients.

Nutrients Defined

Substances needed for growth and healthy body function.

Six Main Components of Food



Carbohydrates and Fats: Energy Sources

Carbohydrates

Provide energy for daily activity.

Sugar (Simple): Fruits, honey, table sugar.

Starch (Complex): Rice, wheat, potato, bread.

Fats

Also provide energy.

Saturated: Solid at room temp (butter, ghee).

Unsaturated: Liquid at room temp (vegetable oil).

Sources: Meat, oil, nuts, cheese, milk.

Caution: Excess leads to obesity, heart disease.



Proteins: Building and Repairing



Muscle Building

Proteins essential for muscle growth.



Tissue Repair

Needed for repairing worn-out tissues.



Body Composition

Muscles, organs, blood mostly protein.



Sources

Animal (meat, fish, egg, milk) & Plant (pulses, soybeans, nuts).

Made with **GAMMA**

Vitamins: Essential for Body Function

Function

Proper body function, healthy eyes, bones, teeth, gums.

Types

Fat-Soluble (A, D, E, K): Stored in fat tissues. Vitamin D from sunlight.

Water-Soluble (B, C): Not stored, need regular supply.

Key Vitamins & Roles

Vitamin A: Eyes, hair, skin health. Deficiency: Night blindness.

Vitamin C: Resists infections, healthy gums. Deficiency: Scurvy.

Vitamin D: Bone growth. Deficiency: Rickets.

Vitamin K: Blood clotting. Deficiency: Hemorrhage.



Minerals: Supporting Health

Function

Healthy body, bone/teeth formation, blood cells, heartbeat.

Macrominerals

Needed in larger amounts: Calcium, magnesium, sodium, potassium.

Trace Minerals

Needed in small amounts: Iron, zinc, copper, iodine.

Durability

Cooking does not destroy minerals.

Roughage, Water, and Balanced Diet

Roughage (Fibers)

Undigested plant food, provides bulk.

Function: Healthy digestive system.

Types: Soluble (apple), Insoluble (whole grain).

Deficiency: Constipation.

Water

70% of body weight, essential for health.

Functions: Transport, nutrient absorption, temperature regulation, digestion.

Sources: Drinks, fruits, vegetables.

Intake: 2-3 liters daily.

Dehydration: Loss of salts,

weakness.

Balanced Diet

Adequate nutrients, roughage, water.

Importance: Proper body function.

Food Groups: Milk, Meat,

Fruits/Vegetables, Grain.