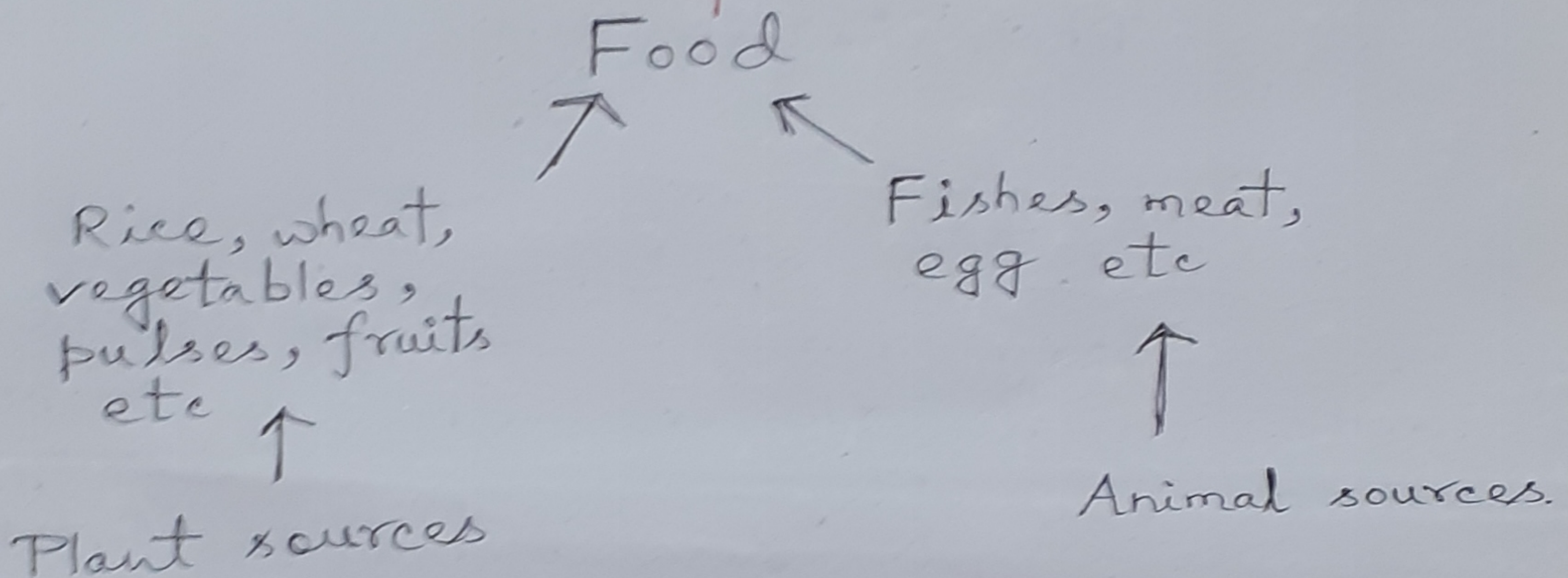


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VI

## Source of energy

We get energy from ~~the~~  
our food. Energy



Herbivores → The animals which eat vegetables directly as their food are called herbivores. Ex → Cow, goat, horse etc.

Carnivores → The animals which eat other animals as their food are called as carnivores. Ex → Tiger, lion etc.

Omnivores → The animals which eat the foods derived both from plant & animal sources are called as omnivores. Ex → Man, crow etc



Producer → Plants can prepare their own food with the help of the sunlight & other components, are called producers. and the process is called as photosynthesis.

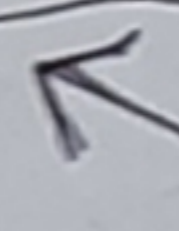
The source of food for all animals directly or indirectly is the green plants, who in turn prepare food in their own body with the help of sunlight & other components.

Thus, the sun is the ultimate source of all energy contained in all types of food on the earth. The solar energy is preserved as chemical or potential energy in food.

Electrical energy



Thermal power



Hydroelectric power

1. (Heat energy to mechanical to Electrical energy)
- (1) Thermal power → The thermal power is obtained mainly by burning of coals or petroleum. Millions of years ago plants were buried under earth, due to heat & pressure the remains of which turned into coal.



After long long years under the rocks, remains of the animals turned into petroleum & natural gas. The petroleum is the source of diesel, petrol, kerosene & other fuels.

Thus the source of energy preserved in coal & petroleum is also the sun.

(ii) Hydroelectric power (Mechanical to Electrical energy)

Water vapours are formed by evaporation of water from different water bodies by the sun, which go up & on cooling come down as rain & gets accommodated at lakes, ponds, rivers sea etc. In hydroelectric power, turbines are turned by fast moving streams of rivers & mechanical energy is converted into electrical energy. Thus, the sun is also directly or indirectly related to it.