

Biology is the study of living organisms. For something to be alive it needs to perform all seven functions of living things. MRS GREN

Movement, Respiration, Sensitivity, Growth, Reproduction, Excretion, Nutrition.

1. Movement

Most organisms are able to move their whole body even plants can shift their stem towards the sunlight and their roots move towards healthy soil.

2. Respiration

IT is the breakdown of food inside a living organism IT IS VITAL for survival. 2 types

Aerobic Respiration

which involves O_2 & glucose breaking down to form CO_2 water & **ENERGY**.

Anaerobic Respiration

which is the incomplete breakdown of food. Happens when there is not enough oxygen. Equation, Glucose & O_2 (not enough) to form CO_2 Lactic Acid or Alcohol (depending on the organism) & a little **ENERGY**.

3. Sensitivity

It is the ability to detect and respond to a stimulus.

4. Growth

It is the permanent increase in size and quantity of cells using materials absorbed from the environment.

5. Reproduction

It is forming new individuals of the same species either sexual (2 parents) or asexual (1 parent) \

6. Excretion

It is removal of harmful products of metabolism. Egestion is the removal of undigested products which haven't entered the cell.

7. Nutrition

It is the intake of food material from the environment.

Autotrophic nutrition: Organisms that make their own food such as plants. Heterotrophic nutrition: Organisms that need readymade food including herbivores, carnivores & omnivores.