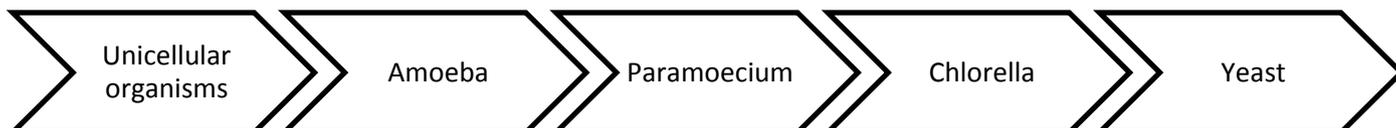
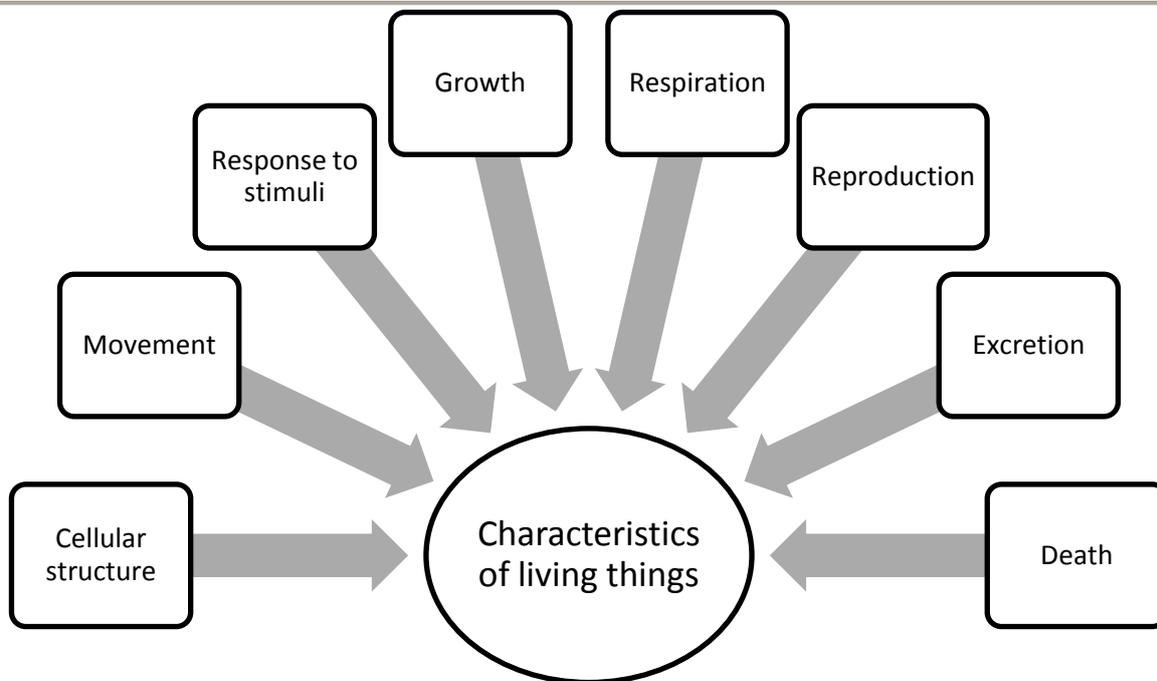


# Chapter B1

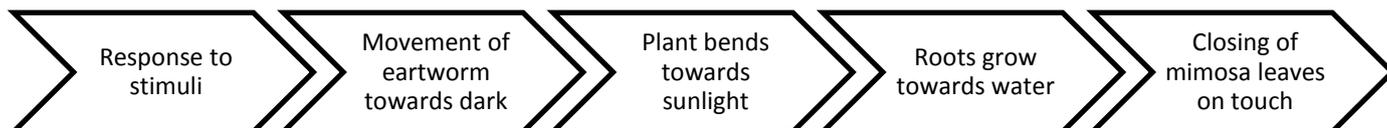
## Characteristics of Living Things



**Locomotion:** Animals can move from one place to another.

Plants make movement, but do not change their place.

**Examples of movements in plants:** Plant bends towards sunlight, roots grow towards water.



**Response to stimuli:** When organisms receive a stimulus from surrounding, they respond to it.

After pricked by a needle, making 's s s s' sound, watering of mouth at the sight of tamarind or slices of raw mango are **responses to stimuli**.

Growth occurs for a definite period of time in **animals**.

A human being grows from birth to an age of 18-25 years.

Plants keep on growing as long as they are alive.

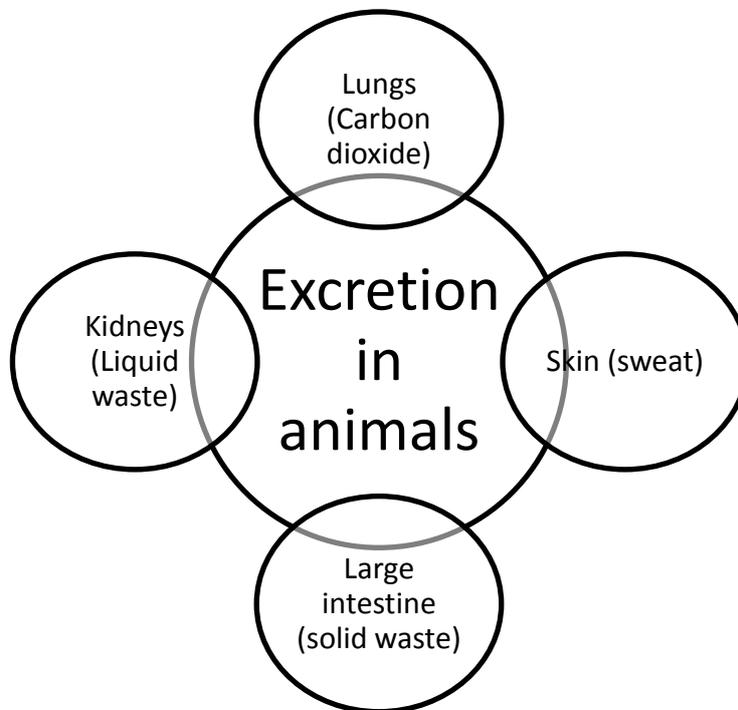
Growth → Size → Weight → Occurs inside the body.

Respiration → Plants and animals → Taking in oxygen → Giving out carbon dioxide.

Plants respire through **stomata** (small holes especially on the lower sides of leaves (on lower sides to reduce water loss)). In aquatic plants stomata are on upper sides, as lower sides are in water.

Plants reproducing by means of seeds

Wheat, mango, bengal gram, jamun, brinjals

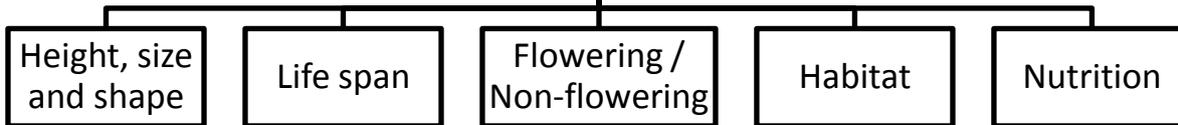


**Plants excretions:** Gums (Babhul, Neem, Drumsticks), Calcium oxalate, Vapours in air etc.

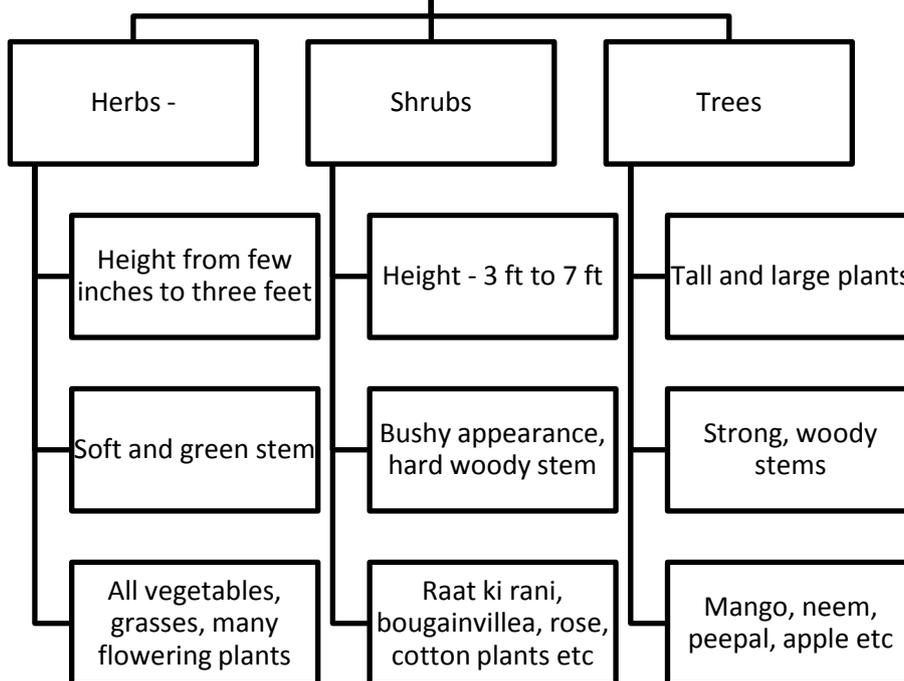
Animals	Life span
House fly	1 to 4 months
Dog	16 to 18 years
Ostrich	50 years
Elephant	70 to 90 years

# Chapter B2

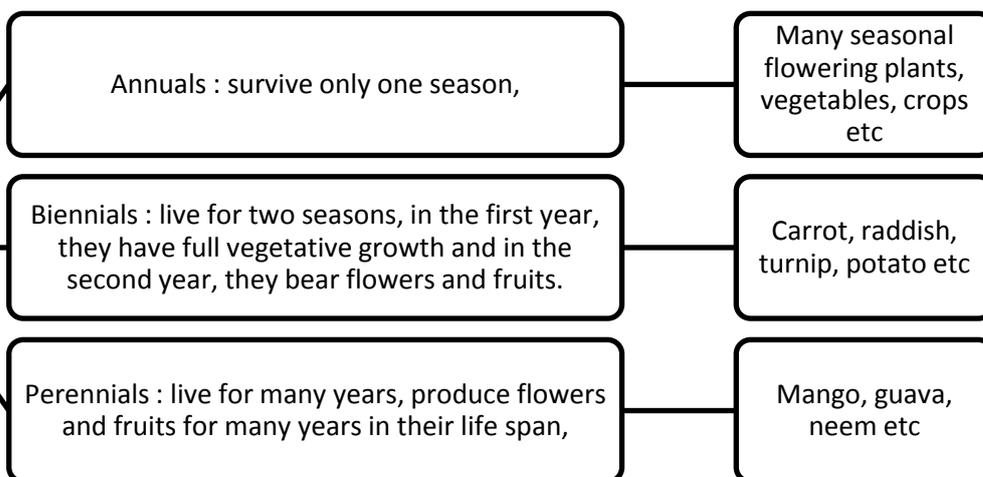
## Classification of plants



### On the basis of height, size and shape



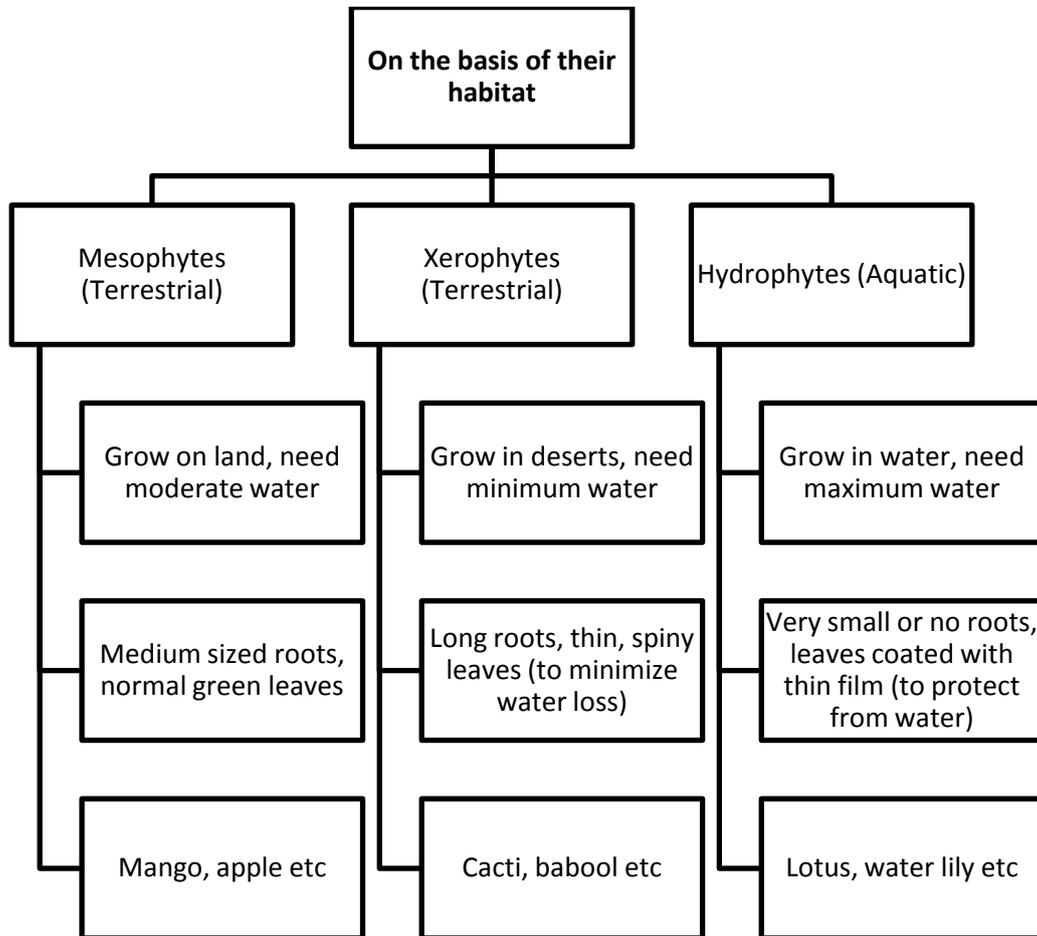
### On the basis of life span



**On the basis of flowers**

Flowering plants (bear flowers), mango, rose, sunflower, grasses etc

Non-flowering plants (plants without flowers), algae, mosses, mushrooms, fern etc.



**On the basis of nutrition**

**Autotrophs :** prepare their own food through photosynthesis, all green plants

**Heterotrophs :** can't prepare their own food

**Saprophytes :** feed on dead and decaying bodies, mushroom, fungus etc

**Parasites :** feed on other living bodies, dodder, orchids etc

Classification of plants → **Carolus Linnaeus.**