

## HW

- ① The shoot of plant is negatively geotropic that is, it is not attracted by gravity and it grows opposite to the direction of gravitational pull whereas in case of roots it is positively geotropic that is, it grows to the ~~direction~~ direction of gravitational pull.

### ② Activity to demonstrate phototropism

- fill a conical flask with water
- Cover the neck of the flask with a wire mesh
- keep 2 or 3 freshly germinated bean seeds on the wire mesh
- Take a cardboard box which is open from one side
- keep the flask in box in such a manner that the open side of the box faces

light coming from a window

- After 2 or 3 days, you will notice that the shoot leads towards light and roots away from light.
- Now turn the flask so that the shoot are away from light and the roots towards the light.
- Leave it undisturbed in this condition for a few days.

Folding up of the leaves of mimosa plant is an example of nastic movement / seismonasty

⇒ Phototropism occurs in plants because it enhances the ability of plants to optimize their photosynthetic capacity.