## 1.3

## Stimuli and Responses in Plants



Like humans and animals, can also detect stimuli and respond to them. The stimuli that can be detected by plants include , and The responses of plants can be divided into two as shown in Figure 1.24.

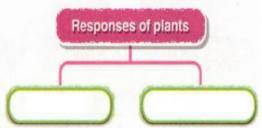


Figure 1.24 Responses of plants to stimuli

## **Tropism**

Tropism is a directional response of plants to such as light, water, gravity and touch coming from a certain direction. A certain part of a plant will grow towards or move away from the detected stimulus. The part of a plant which grows towards a stimulus is known as tropism whereas the part of a plant which grows away from a stimulus is known as tropism. The directional response of plants normally occurs slowly and less significantly. Let us carry out Experiment 1.1 to determine the direction of response of plants to light, water, gravity and touch.