

SCIENCE EXERCISE SET A (UNIT 4 : PLANTS RESPONSES TO STIMULI)

UNIT

4

PLANTS

THEME: Life Science

PBD MODULE DSKP PRACTICE

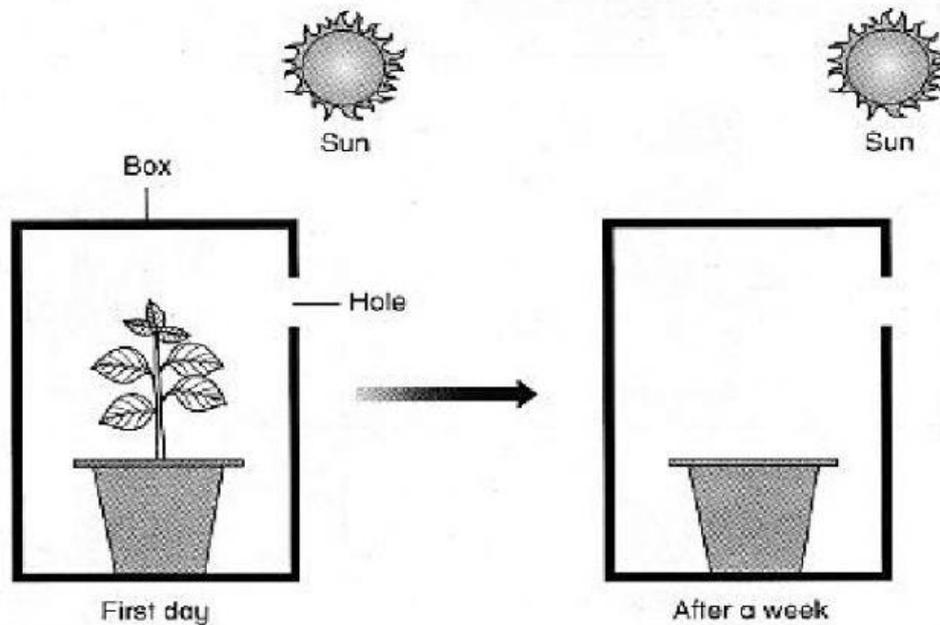
Plants Respond to Stimuli

I. (a) Plants respond to stimuli. LS4.1.1

P111 i. List the parts of plants that respond to stimuli.

ii. What types of stimuli are involved?

(b) The diagram below shows an experiment carried out by a group of students. LS4.1.2, LS4.1.3



i. Sketch the condition of the plant after one week. Label it.

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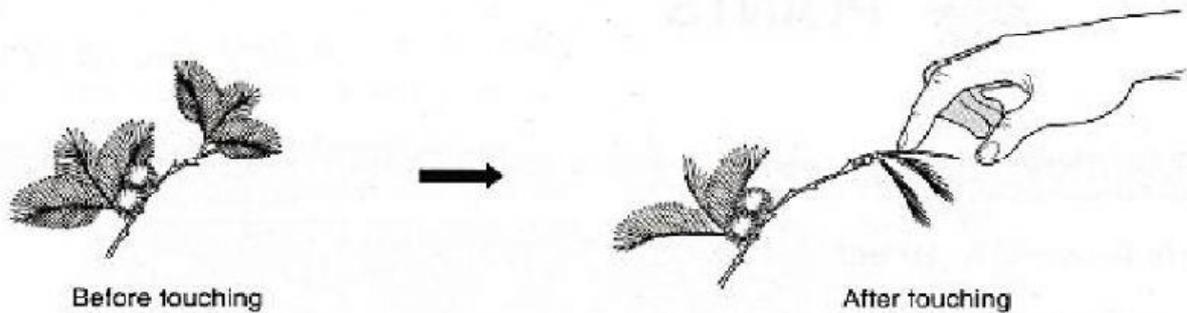
ii. What conclusions can be made from this investigation?

Tick (✓) in the correct box.

The plant responds to touch.	<input type="checkbox"/>
Plants respond to sunlight.	<input type="checkbox"/>
Plants respond to gravity.	<input type="checkbox"/>

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2. The diagram below shows a boy touching the mimosa leaves. (S4) (3)



(a) i. What happens to the mimosa leaves?

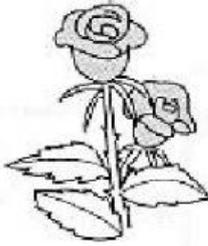
REB The leaves will \_\_\_\_\_.

ii. What can be proven in this activity?

REB The plant responds to \_\_\_\_\_.

(b) i. Which plant responds in the same way as mimosa leaves?

REB Tick (✓) the correct answer.

 <p>Rose plant</p> <input type="checkbox"/>	 <p>Venus flying trap</p> <input type="checkbox"/>
 <p>Aloe vera</p> <input type="checkbox"/>	 <p>Pineapple plant</p> <input type="checkbox"/>

ii. What happens if insects settle on the plant you are stated in (b)i.?

This plant will \_\_\_\_\_.

iii. State the form of stimulation shown by this plant.

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