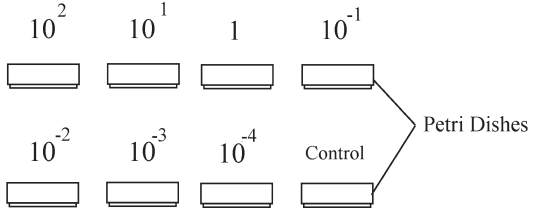


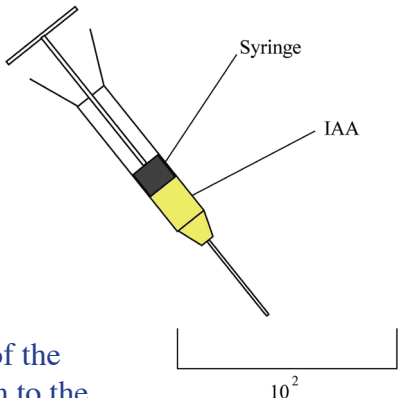
4.14 To investigate the effect of IAA growth regulator on plant tissue

1



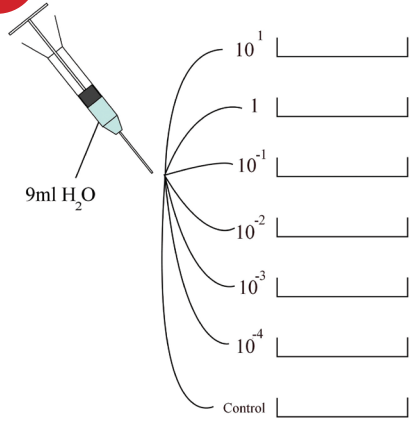
Label eight petri dishes 10^2 , 10^1 , 1, 10^{-1} , 10^{-2} , 10^{-3} , 10^{-4} and control

2



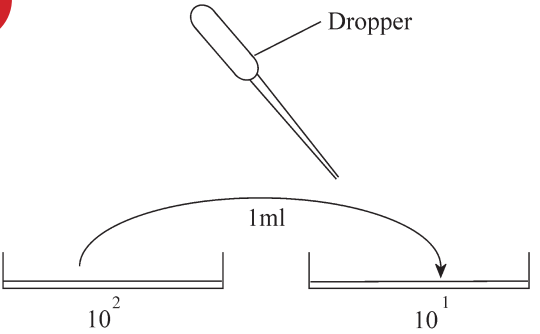
Add 10 ml of the IAA solution to the dish labelled 10^2 .

3



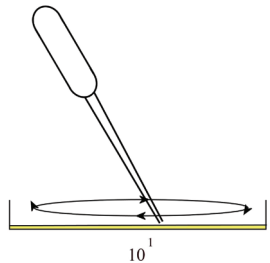
Using a different syringe, add 9 ml of water to each of the other dishes.

4



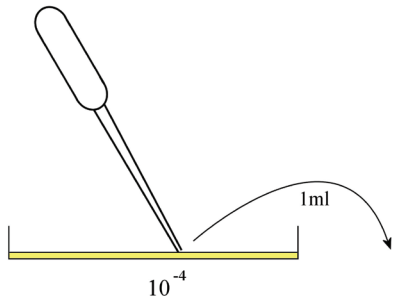
Using a dropper, remove 1ml of solution from the 10^2 dish and add it to the 10^1 dish.

5



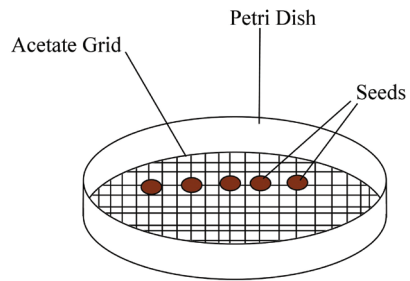
Stir the solution using the dropper. Repeat this procedure for the remainder of the dishes (1, 10^{-1} , 10^{-2} , 10^{-3} and 10^{-4}), using a different dropper each time.

6



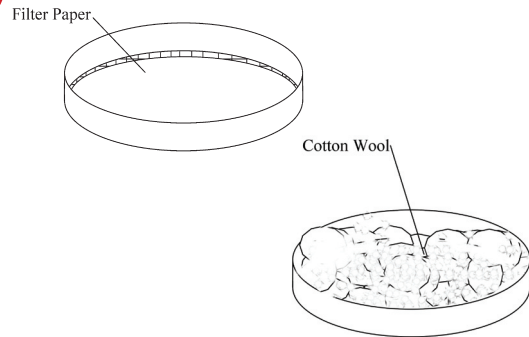
Discard 1ml of liquid from the dish labelled 10^{-4} .

7



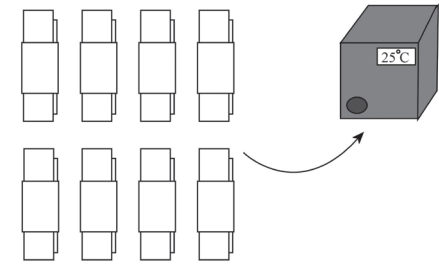
Place an acetate grid on the lid of each petri dish. Place 5 radish seeds along the cross lines.

8



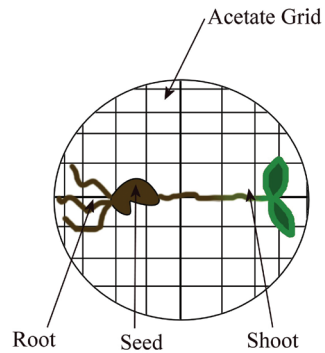
Place filter paper on top of the seeds. Spread cotton wool on top of the filter paper.

9



Put the base of each petri dish on its lid. Secure the dishes and incubate vertically at 25°C for 2-3 days.

10



Measure the lengths of roots and shoots of each seed using the acetate grid.

11

Calculate the average length of the stems at each concentration and the percentage stimulation or inhibition.

Always remember – Leave time to tidy up

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