

Plant hormones **Triple only**

What is auxin and what does it do?

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Phototropism and gravitropism?

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Why does a shoot bend towards light?

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Seedling practical: what to record?

Plant hormones **Triple only** **Higher tier**

Gibberellins and ethene: functions?

Plant hormones **Triple only** **Higher tier**

Uses of auxins?

Plant hormones **Triple only** **Higher tier**

Use of ethene?

Plant hormones **Triple only** **Higher tier**

Uses of gibberellins?

Phototropism: growth response to light.
Gravitropism (geotropism): growth response to gravity.

A plant hormone. Unequal distribution of auxin causes unequal growth rates in roots and shoots.

Length measurements and careful, labelled biological drawings to show the effects of light or gravity.

Auxin builds up on the shaded side, cells there grow faster, so the shoot bends towards the light.

As weed killers, as rooting powders, and for promoting growth in tissue culture.

Gibberellins initiate seed germination.
Ethene controls cell division and ripening of fruits.

To end seed dormancy, promote flowering and increase fruit size.

In the food industry to control ripening of fruit during storage and transport.