

SUMMARY OF PLANT HORMONES

What are plant hormones?

Plant hormones are chemicals which allow the plant to respond to its ever changing environment.

Although plants are rooted organisms that don't have a nervous system, they can still successfully coordinate their responses to aid their survival. Hormones can be used to communicate between nearby cells, different parts of the plant and even between different plants. One type of response shown by plants are tropisms. These are growth responses which allow parts of a plant to either grow towards, or away from a stimulus, depending on what is favourable for the plant's survival.

WORDS TO USE

survival growth communicate
tropisms respond environment
survive stimuli
effect details

How do plant hormones work?

Each type of hormone can have several different roles within the plant.

Depending on whether the hormone is in relatively low or high concentrations can impact on how they function. Different plant hormones can interact with one another, also affecting their function. Plant hormones can sometimes amplify one another's effect, this is known as synergism. If hormones have an opposite effect however to one another, it is known as antagonism. Therefore the fine balance between the concentration of the various plant hormones is vital in coordinating the plant's responses to its changing environment.

WORDS TO USE

antagonism interact roles
balance synergism

★ Complete the table using the information sheet for each hormone

Hormone	Role/s of hormone in plant
Auxins	Promote cell elongation Prevents leaf fall (known as abscission) Stimulates the release of ethene for fruit ripening Maintains apical dominance Involved in tropisms e.g. phototropism
Gibberellins	Cause stem elongation Promote flowering Involved with seed germination Stimulate pollen tube growth in fertilisation
Abscisic acid (ABA)	Causes stomatal closure in response to water stress Inhibits seed germination, keeping seeds dormant Stimulates antifreeze production in response to the cold
Ethene	Causes leaf abscission Involved with seed germination Causes fruit ripening Causes flowering in pineapples
Cytokinins	Stimulates cell division Stimulates the growth of lateral buds Slows senescence (ageing) of leaves Involved with seed germination

Section 25 1 Plant Responses Answer Key

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Section 25 1 Plant Responses Answer Key:

Section 25 1 Plant Responses Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Let's delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year.

The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Section 25 1 Plant Responses Answer Key : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is an exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://crm.avenza.com/About/Resources/Documents/Selection%20Kiera%20Cass%20Bud.pdf>

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