

Section 5: Plant Hormones and Responses

Study Guide 22-5 and Vocab

1. A chemical messenger formed in one part of an organism that stimulates or suppresses cell activity in another part of the organism is called a(n) _____.
2. Plant hormones are sometimes released in response to _____ changes and sometimes in response to internal changes in the plant.

Complete the chart below by filling in the blanks with the names of the four main groups of plant hormones.

Plant Hormone	Controls processes involved in
3. _____	ending seed dormancy starting germination promoting rapid growth of new seedlings
4. _____	the ripening of fruits
5. _____	the final stage of cell division the growth of roots and side branches the development of seeds and fruits slowing the aging of leaves and other plant organs
6. _____	lengthening of cells in the growing tip of a plant preventing growth of new branches tropisms

In the space provided below, illustrate the process of phototropism as it occurs at the cellular level. Use Figure 5.3 as a reference. Label areas of high auxin concentration.



Plant Hormones And Responses Study Guide Answers

Zhe Xu



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