**UNIT OVERVIEW:** Plant Responses

1. **ENQUIRY:** Why is photosynthesis essential for life?

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| **Unit intention:** Plant responses to environmental changes are coordinated by hormones, some of which are important commercially. In animals, responding to changes in the environment is a complex and continuous process, involving nervous, hormonal and muscular coordination. | | | |
| **Success criteria: I can** | | 🗸 | X |
| |  | | --- | | State and describe the types of plant hormones and their roles | | Explain and evaluate the experimental evidence for the role of auxins in the control of apical dominance | | Explain and evaluate the experimental evidence for the role of gibberellin in the control of stem elongation and seed germination | | Plan an l investigation into phototropism and geotropism | | Plan an investigation into the effect of plant hormones on growth | | Explain the commercial uses of plant hormones | | |  |  |
| **Unit summative and formative assessment details:**  Weekly Seneca, factual re-call  Extended writing  Practical Research  End of unit test | **Topic Sequence**  Plant hormones and growth in plants  Plants response to abiotic conditions  Plants response herbivory  Tropisms in plants  The Commercial use of plants | | |
| **Home Learning (What and how often):**  **Home Learning (What and how often):**  Homework once a week (flip learning and Seneca)  Revisit class content (make notes)  Research activities for practical | | | |
| <http://www.sumanasinc.com/webcontent/animations/content/plantgrowth.html>  <http://www.apsnet.org/edcenter/intropp/topics/Pages/OverviewOfPlantDiseases.aspx>  <http://www.arkive.org/sensitive-plant/mimosa-pudica/video-00.html> | | | |

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| **Success criteria** – Have you met them? Show your evidence in the boxes below. |
| **1.** |
| **2.** |
| **3.** |
| **4.** |
| **5.** |
| **6.** |
| **How will you improve your work?**  <http://www.saps.org.uk/secondary/teaching-resources/283-photosynthesis-how-does-chlorophyll-absorb-light-energy>  <https://quizlet.com/70561638/photosynthesis-flash-cards/> |

**End of Unit EVALUATION**