|  |  |  |
| --- | --- | --- |
| **What will we be learning?**  Ecosystems – Plant reproduction | **Why this? Why now?**  Previous Learning  Cells  Variation  Interdependence  Future Learning  KS3  Photosynthesis  GCSE  Inheritance  A-LEVEL  Biodiversity  Plant responses  Enquiry Processes  Draw conclusions, Justify opinions | **Keywords**  **Pollen: Contains the plant male sex cells found on the stamens.**  **Ovules: Female sex cells in plants found in the ovary.**  **Pollination: Transfer of pollen from the male part of the flower to the female part of the flower on the same or another plant.**  **Fertilisation: Joining of a nucleus from a male and female sex cell.**  **Seed: Structure that contains the embryo of a new plant.**  **Fruit: Structure that the ovary becomes after fertilisation, which contains seeds.**  **Carpel: The female part of the flower, made up of the stigma where the pollen lands, style and ovary.** |
| **What will we learn?**  • Identify major organs in plants  • Recall parts of a flower  • Recall two methods of seed dispersal  • Identify main steps of plant sexual reproduction  • Identify adaptations that enable plants to survive and reproduce  • Identify parts of a flower during a dissection  • Describe two methods of seed dispersal  • Explain what selective breeding is  • Explain why some plants can survive in extreme conditions  • Explain main stages of plant sexual reproduction  • Evaluate main methods of seed dispersal  • Evaluate plant adaptations that enable them to survive and reproduce  **Misconceptions in this topic**   * Plants have two gametes similar to animals, flower are the reproductive organs but can also reproduce asexually. | |
| **What opportunities are there for wider study?**  wildlife documentary making, forestry, environmental sciences, teaching, local and national organisations and companies protecting nature reserves and areas of conservation, gardeners, horticulture, farming  STE(A)M  <https://highcliffe.sharepoint.com/sites/LearnSTEM> | |
| **How will I be assessed?**  End of Topic Assessment | |