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| **What will we be learning?**  Ecosystems - Interdependence | **Why this? Why now?**  Previous Learning  Cells  Variation  Future Learning  KS3  Genes  GCSE  Ecology  A-LEVEL  Biodiversity  Enquiry Processes  Draw conclusions, Justify opinions | **Key Words:**  **Food web**: Shows how food chains in an ecosystem are linked.  **Food chain**: Part of a food web, starting with a producer, ending with a top predator.  **Ecosystem**: The living things in a given area and their non-living environment.  **Environment**: The surrounding air, water and soil where an organism lives.  **Population:** Group of the same species living in an area.  **Producer**: Green plant or algae that makes its own food using sunlight.  **Consumer**: Animal that eats other animals or plants.  **Decomposer**: Organism that breaks down dead plant and animal material so nutrients can be recycled back to the soil or water. |
| **What will we learn?**  • Recognise that food chains represent a flow of biomass  • Recall a Predator/Prey relationship  • Recognise the role of an insect pollinator  • Construct a food chain  • Recognise impact of environmental change  • To know the impact of toxic substances in a food chain  • Interpret graphs of predator prey relationship  • Explain why the number of organisms changes at each trophic level  • Explain the importance of insect pollinators  • Evaluate predator prey relationship graphs  • Evaluate problems to human food supplies  • Evaluate changes in a population of organisms  **Misconceptions in this topic**   * Arrows in food chains show flow of Biomass not energy. | |
| **What opportunities are there for wider study?**  Conservation, wildlife documentary making, forestry, environmental sciences, teaching, waste management, ecological impact assessment, 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 | |