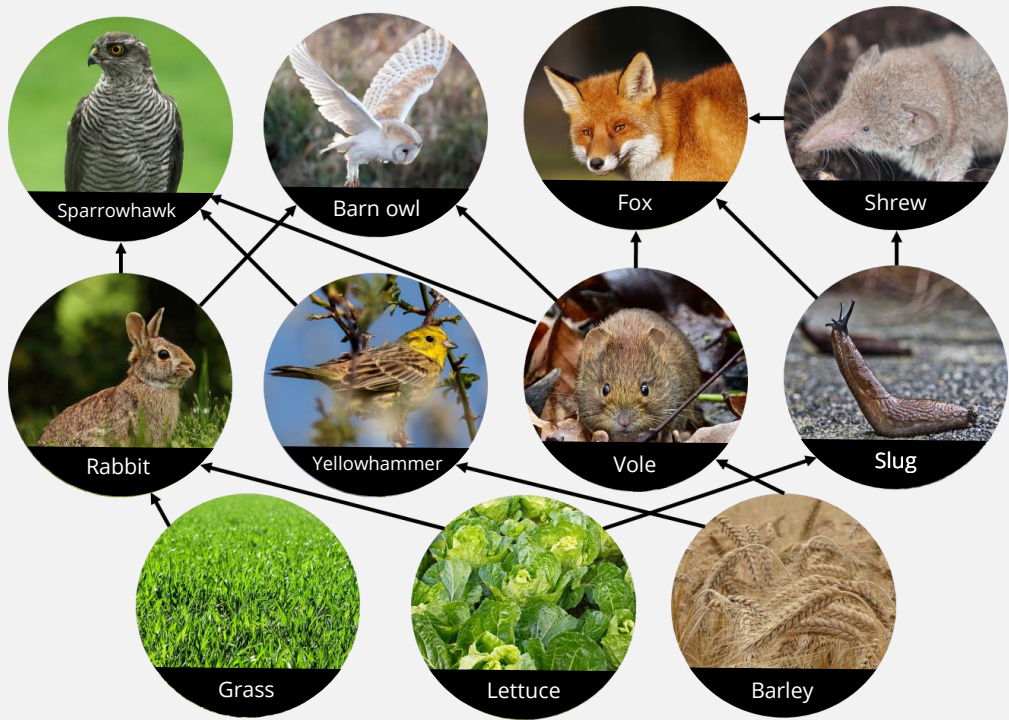


# DEFINITIONS

|               |   |
|---------------|---|
| ECOSYSTEM     | The place where an organism lives                                     |
| HABITAT       | A non-living factor which affects the environment (e.g. weather)      |
| COMMUNITY     | All the organisms living in a particular habitat                      |
| ABIOTIC       | An organism which eats other organisms to gain energy                 |
| BIOMASS       | An organism which makes its food by photosynthesis                    |
| CONSUMER      | The living organisms and their physical environment in a certain area |
| PRODUCER      | The position in a food chain or web                                   |
| TROPHIC LEVEL | Measure of the total mass of living material in each trophic level    |

# FOOD WEB



# FOOD CHAIN & TROPHIC LEVEL DIAGRAM



# DESIGN YOUR ECO-FARM



| Initiative                  | Cost                             | Biodiversity benefit  | Bonus / prerequisites                                   |
|-----------------------------|----------------------------------|---|---|
| Wildflower meadow           | £150 per plot                    | Bees, butterflies, spiders, birds, small mammals                          | Government subsidy +£150 for first plot                 |
| Hedgerow (must have)        | £250 for 250m length of hedgerow | Hedgehogs and other small mammals, birds, insects<br>Reduces soil erosion | +£25 extra profit for each crop planted                 |
| Freshwater pond (must have) | £500 per plot                    | Water voles, otters, insects, fish, newts and frogs                       | No school trips without freshwater pond                 |
| Restore eroded soils        | £100 per plot                    | Insects and worms   | Need to do if planting crops in plot                    |
| Potato mixed varieties crop | £25 per plot                     | Mixed varieties give more protection against disease                      | +£75 profit per plot                                    |
| Wheat monoculture crop      | £25 per plot                     | Birds<br>Not protected against disease                                    | +£50 profit per plot                                    |
| Wildlife corridor           | £250 for 250m length             | Butterflies, bees, birds, hedgehogs                                       | Must be planted between crops or wildflower plots       |
| Public footpath (must have) | £500 for 250m length             | School trips to teach children about eco-farming and local wildlife       | Government subsidy +£300                                |
| Beehives                    | £25 per hive (maximum 4 hives)   | Bees, wildflowers, insects  | Must be next to wildflower plot<br>Honey +£100 per hive |

50m

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GRANT = £2,000

KEY

How will your farm help to improve local biodiversity?