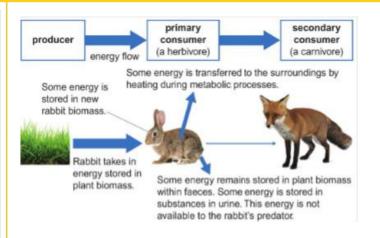
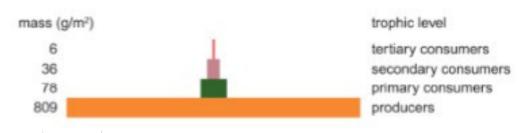
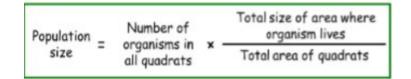
Knowledge Organiser: Biology, CB9

1	All organisms that live and interact in an ecosystem form a community .
2	The community is made up of populations of different species. These species depend on each other for resources and so are interdependent .
3	Each population lives in a particular habitat within the ecosystem.
4	An abiotic factor is a non-living or physical factor examples include light intensity, temperature, soil pH
5	A biotic factor is a living factors, examples include new predators, food availability.
	To survive and reproduce , organisms require a supply of
6	materials from their surroundings and from other living organisms there.
7	A parasite lives on or in a host organisms. The parasite gains benefit from the relationships but this may weaken or even kill the host.
8	A mutualistic relationship is one in which two different species live closely with each other and both gain benefit from this
9	It is important for ecologists to be able to determine the distribution and abundance (how many) of a species in an ecosystem. If one species is in decline, it can affect the whole ecosystem.







Knowledge Organiser: Biology, CB9b

10	Sampling techniques are used to estimate the size of a population. Quadrats are often used to do this and they can be used in a random way or by placing them along a line through an area called a belt transect.
11	Food chains are used to represent the feeding relationships within a community. All food chains begin with a producer which synthesises molecules
12	Producers are eaten by primary consumers which in turn may be eaten by secondary consumers which may be eaten by tertiary consumers.
13	Trophic levels are defined as the feeding levels within an ecosystem. Trophic levels can be represented by numbers.
14	Biomass is defined as the amount of living material at each trophic (feeding) level.
15	Biodiversity is the variety of all the different species of organisms on Earth, or within an ecosystem.
16	All materials in the living world are recycled through the abiotic and biotic parts of an ecosystem to provide the building blocks for future organisms.
17	Decomposers play an important part in the carbon and nitrogen cycle.

