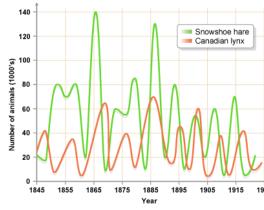
Biology 7: Ecology

	ection 1: Key terms		
	1 Ecosystem	The interaction of a community of living organisms (biotic) with the non-living (abiotic) parts of their environment.	
	2 Habitat	The area in which an organism lives .	
		Two or more different species in an ecosystem. A stable community is one where all the species and environmental factors are in balance so that population sizes remain fairly constant.	
	4 Population	The total number of organisms of one species in an ecosystem.	
	5 Competition	Plants often compete for light, space, water and mineral ions. Animals often compete for food, mates and territory	
	6 Interdependence	Within a community each species depends on other species for food, shelter, pollination etc.	
	7 Adaptations	A feature that an organism has that allows it to survive in its ecosystem.	
	8 Biodiversity	The variety of all the different species of organisms on Earth, or within an ecosystem.	

Section 3: Food Chains and Predator-Prey Relationships



11 Producer -**Start** of a food chain. Produces glucose through photosynthesis. 12 **Primary** Consumer -Eats a producer. Prey of secondary consumer.



13 Secondary Consumer -Eats a primary consumer. **Predator** of primary consumer.

Predator-prey cycles

15 The population of the **prey increases** 16 **More food** is available for the **predators**, so their population increases. 17 There are **more predators** so the population of the prey decreases. 18 There is **less prey to feed on** so the population of predators decreases. 19 The cycle restarts from the beginning.

14 **Tertiary**

Consumer -

Predates on

secondary

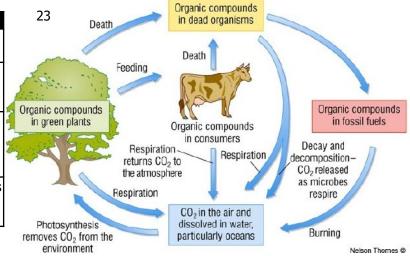
consumer.

Section 2: Biotic and Abiotic Factors		
10 Abiotic	Iſ	
Light intensity][:	
Temperature][
Moisture levels	brack rack ra	
Oxygen levels for aquatic		
animals	إ	
Wind intensity and direction	ļĽ	
Carbon dioxide levels for	$\ $	
plants][:	
Soil pH and mineral	$\ \cdot \ $	
	10 Abiotic Light intensity Temperature Moisture levels Oxygen levels for aquatic animals Wind intensity and direction Carbon dioxide levels for plants	

	Section 4: Adaptations		
	20 Structural Adaptations	Part of the body that helps the organism survive. e.g. polar bears have a thick layer of fat for insulation.	
ion	21Functional Adaptations	How the body operates that helps the organism survive. E.g. camels do not sweat.	
or	22 Behavioural Adaptations	A behaviour that helps the organism survive. e.g. desert rats stay in their burrows during the hottest parts of the day.	

Section 5: Cycles

Section 5a: Carbon cycle steps	
	Plants absorb CO ₂ from
Photosynthesis	atmosphere.
25 Respiration	Animals, plants and micro-
	organisms respire, releasing
	CO ₂ into the atmosphere.
26 Decay	The carbon in dead organisms
	is released to the
	atmosphere by micro-
	organisms respiring.
27 Combustion	Carbon locked in fossil fuels is
	released as CO ₂ when fuels
	are burned .





Section 5b: Water cycle steps				
	Liquid water is turned into			
29 Evaporation	water vapour in the			
	atmosphere.			
30	Water vapour condenses to			
Condensation	form clouds.			
31	Water is deposited from clouds			
Precipitation	as rain .			