



I Can Statement - Year 7

Ecosystems

Unit/Topic Overview	Pre-taught Vocabulary	
In this topic, ecological interaction is a key idea in science that helps us understand how living organisms interact with each other and their environment. You will learn how energy flows through food chains and food webs from producers to top predators, and how essential nutrients cycle continuously through habitats. Ecosystems also help us understand biodiversity and the delicate balance required to sustain healthy environments. By studying ecosystems, you will be able to better explain habitat interdependence and human impacts on nature.	Ecosystem	Producer
	Community	Consumer
	Population	Decomposer
	Habitat	Food web
	Biodiversity	Abiotic

RAG Rating:		Start	End
1.	I can accurately define population, community, habitat, and ecosystem, and explain how they nest within one another.		
2.	I understand how adaptations may be daily or seasonal and that they may be useful		
3.	I can construct and interpret food chains, correctly using arrows to represent the flow of energy (rather than "who eats whom"). They can identify predator and prey, producer and consumer and understand interdependence.		
4.	I can construct food webs, can explain interdependence in detail, including identifying factors that affect population		
5.	I understand pyramids of number and biomass. They will be able to identify a failing ecosystem and discuss anomalies in pyramids.		
6.	I understand how toxic materials (like pesticides or heavy metals) can accumulate as they move up a food chain, disproportionately affecting top predators.		
7.	I understand about various sampling techniques and will be able to identify the most appropriate technique for a given scenario		
8.	I understand and am able to describe in detail reproduction in a flowering plant, from pollination through to seed dispersal		