AQA Biology GCSE
Student Checklist

B17 Organising an ecosystem

Name .... Class .... Date ....

Lesson	Aiming for 4		Aiming for 6		Aiming for 8	
B17.1 Feeding relationships	I can state the meaning of producer, consumer, predator, prey and give examples of each.	☐	I can identify producers, primary consumers, secondary consumers, tertiary consumers, predators and prey in a food web.	☐	I can explain in detail why all living things depend on producers.	☐
	I can identify producers, consumers, predators and prey in a food chain.	☐	I can describe what happens to a population in a food web when another changes.	☐	I can evaluate in detail food chains/webs as models to show feeding relationships.	☐
	I can describe what a graph shows about how the numbers of predator and prey change over time.	☐	I can plot data as a line graph and explain the pattern of predator and prey populations.	☐	I can make predictions based on data of a predator prey relationship.	☐
B17.2 Materials cycling	I can state what a decomposer is and give examples.	☐	I can explain why decomposers are important to a stable ecosystem.	☐	I can explain how detritivores increase the rate if decay using ideas about surface area.	☐
	I can name some substances that are recycled in the living world.	☐	I can explain the importance of recycling substances.	☐	I can explain how substances change as they decay.	☐
	I can describe the events in the water cycle.	☐	I can describe the events in the decay cycle.	☐	I can comment on the limitations of a simple model of decay.	☐
B17.3 The carbon cycle	I can state that carbon atoms are moved around the Earth (recycled).	☐	I can describe the events in the carbon cycle.	☐	I can explain in detail why the concentration of carbon dioxide I the atmosphere is rising and why this is an issue.	☐
	I can give one reason why we need to recycle carbon.	☐	I can explain why the carbon cycle is vital to life on Earth.	☐	I can explain the links between photosynthesis, respiration and combustion in the carbon cycle.	☐
	I can use a diagram of the carbon cycle to describe the main processes involved.	☐	I can write word equations for photosynthesis, respiration and combustion.	☐	I can write balanced symbol equations for photosynthesis, respiration and combustion.	☐

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B17.4 Rates of decomposition	I can state factors that affect the rate of decay.	☐	I can identify factors that speed up or slow down decay.	☐	I can explain why factors speed up or slow down decay.	☐
	I can choose a suitable independent variable and a way of changing it.	☐	I can choose a suitable dependent variable and plan a way to measure it accurately.	☐	I can apply factors which affect the rate of decay to real life situations, e.g. compost making, preserving food.	☐
	I can plot a line graph with more than one line plotted on the same axes, with guidance.	☐	I can plot a line graph with more than one line plotted on the same axes.	☐	I can calculate percentage change and rate of decay.	☐