

Learning checklist Interdependence 1

Level 4

- I know the five groups of vertebrates.
- I know the conditions a plant needs for growth.
- I know two conditions an animal needs to live.
- I know that plants start a food chain.
- I can identify the producer and consumer in a food chain.
- I know the conditions that affect a population size.
- I know the differences between a predator and prey.
- I can explain what a pest is.
- I know what pesticides are.

Level 5

- I know the characteristics of mammals, fish, birds, reptiles and amphibians.
- I can explain how a plant absorbs light and water.
- I can name the adaptations a plant or animal has to survive.
- I know the arrows in a food chain show the direction of energy transfer.
- I can explain what happens to the organisms in a food web if one organism disappears.
- I can identify the main adaptations a predator has to survive.
- I know that decomposers break down dead material.
- I know bacteria and fungi are decomposers.
- I know the conditions needed for dead material to rot.
- I can explain what happens to the organisms in a food web if one organism disappears.

Level 6

- I can classify unfamiliar organisms.
- I know the gases used and produced in photosynthesis.
- I can construct a pyramid of numbers from given data.
- I can explain why not all the energy is passed on from a predator to a prey.
- I can explain the advantages and disadvantages of using pesticides.

Level 7

- I can explain how the cells of the stem are adapted to transport water.
- I can write down the word equation for photosynthesis.
- I can explain how a leaf cell is adapted to carry out photosynthesis.
- I can explain why a leaf gives off oxygen in the day and carbon dioxide at night.
- I can explain why pyramids of numbers are not always produced.
- I can construct pyramids of numbers for parasitic food chains.
- I can interpret complex predator–prey graphs.
- I can explain why food chains usually have a maximum of five links.

Level 8

- I can explain how energy is changed from light energy to energy in a carnivore.
- I can explain why not all the energy reaches the carnivore.
- I can construct pyramids of energy.
- I can explain the effect of the accumulation of pesticides on a food chain.