Edexcel iGCSE Biology Checklist

Section D14: Ecosystems

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| ***I can***  | ☺ | 😐 | ☹ |
| understand the terms population, community, habitat and ecosystem |  |  |  |
| explain how quadrats can be used to estimate the population size of an organism in two different areas |  |  |  |
| explain how quadrats can be used to sample the distribution of organisms in their habitats. |  |  |  |
| explain the names given to different trophic levels to include producers, primary, secondary and tertiary consumers and decomposers  |  |  |  |
| understand the concepts of food chains, food webs, pyramids of number, pyramids of biomass and pyramids of energy transfer |  |  |  |
| understand the transfer of substances and of energy along a food chain |  |  |  |
| explain why only about 10% of energy is transferred from one trophic level to the next. |  |  |  |
| **describe the stages in the water cycle, including evaporation, transpiration, condensation and precipitation**  |  |  |  |
| describe the stages in the carbon cycle, including respiration, photosynthesis, decomposition and combustion |  |  |  |
| **describe the stages in the nitrogen cycle, including the roles of nitrogen fixing bacteria, decomposers, nitrifying bacteria and denitrifying bacteria (specific names of bacteria are not required).** |  |  |  |
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