

19 Carbon cycle and populations – Part 2

—Answers

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Work through these after trying the questions yourself.

19.6 Photosynthesis.

19.7 Respiration and combustion (burning); also decomposition.

19.8 A group of organisms of one species, living in the same area at the same time.

19.9 The exponential phase.

19.10 The numbers fall, because the food runs out, wastes build up, or disease spreads.

19.11 First a slow **lag phase** (the bacteria adjust); then a fast **exponential phase** (plenty of food and space); then a **stationary phase** (numbers level off as food and space run low and wastes build up); finally a **death phase** (numbers fall as food runs out, wastes turn toxic, or disease spreads).