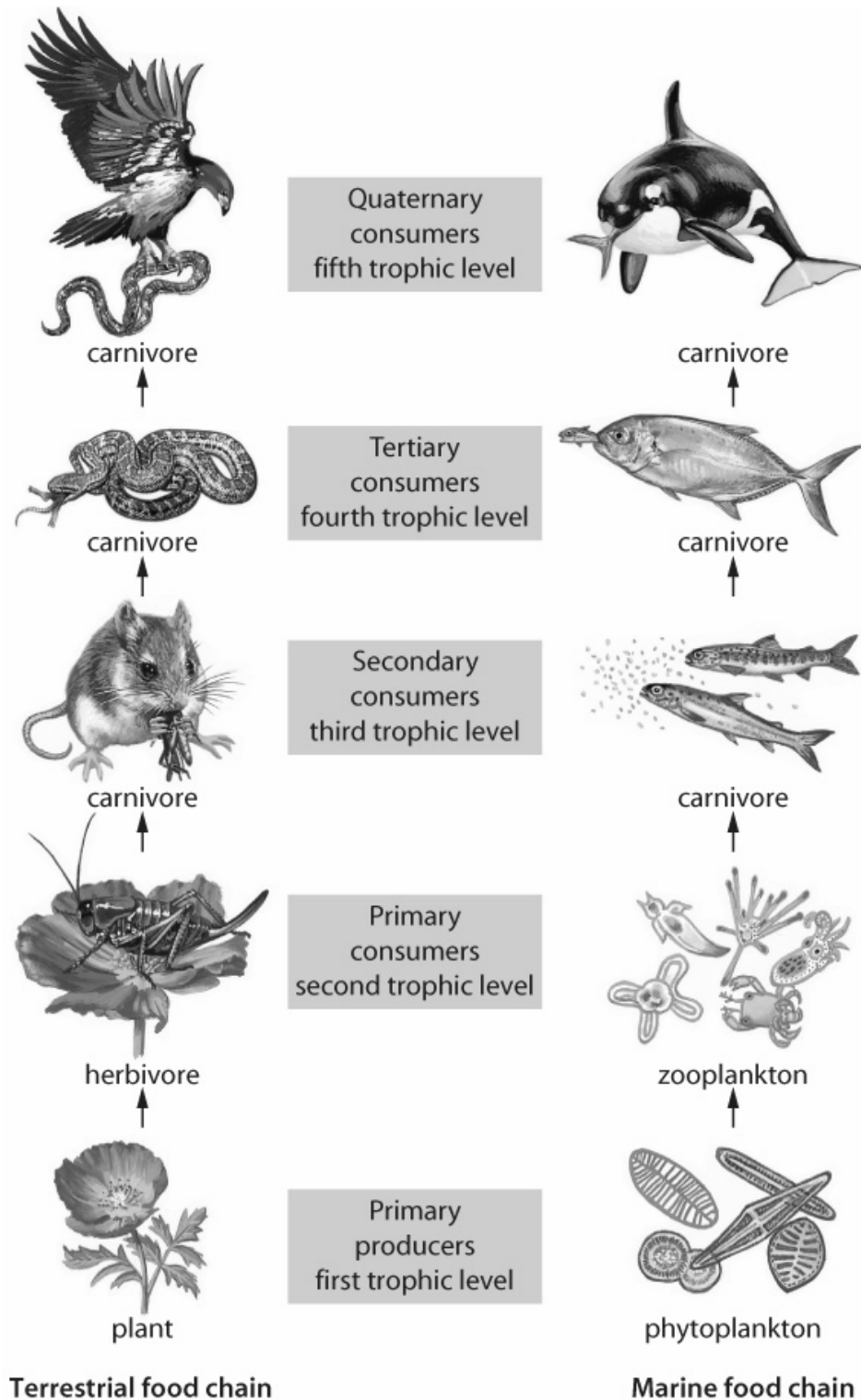


CHAPTER 1
ANSWER KEY
Terrestrial and Aquatic Food Chains Answer Key
BLM 1.2.1A

1.



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2. Organisms in an ecosystem may be organized by 1) how they obtain their food (herbivore, carnivore); 2) consumer level (producer, primary consumer); or 3) trophic level.
3. Decomposers feed at all trophic levels in both terrestrial and aquatic food chains.
4. The arrows between trophic levels in the food chains represent energy transfer from one trophic level to another.
5. If the carnivore at the fourth trophic level is over-fished, there will be less prey available to the carnivores at the fifth trophic level and this species will decrease in number as a result. Since there will also be fewer organisms eating the carnivores at the third trophic level, this population will increase in size. There will now be more of these carnivores eating the organisms at the second trophic level. The zooplankton at this level would thus decrease in number and eat fewer of the phytoplankton at the first trophic level, which will thus increase in number.