#### Checkpoint 1:

- Why is it challenging to determine the number of species on Earth?
  - Because many organisms are hard to locate due to their size, behavior, and/or hard to explore habitat.
- Why are estimates of species diversity valuable to environmental scientists?
  - So that they can study and observe changes over time.
- What is the difference between species richness and species evenness? Why are they
  both important measures?
  - Species richness is the number of species in a given area and species evenness is the population of each species in proportion to one another. They are both important measures because one without the other doesn't give the whole picture and both are needed to accurately depict the biodiversity of an area.

#### Checkpoint 2:

- What is evolution and what are the three main ways in which it occurs?
  - Evolution is the change of genetic composition over time. It occurs through artificial selection, natural selection and other random processes.
- How are artificial and natural selection similar? How are they different?
  - They are similar because they both can benefit the organism in terms of fitness.
     They are different because artificial selection involves manipulation from humans and natural selection does not.
- How does evolution lead to biodiversity?
  - Evolution leads to biodiversity because recombination and mutations during evolution introduce new combinations of genes in organisms.

#### Checkpoint 3:

- How does geographical isolation lead to reproductive isolation?
  - As time passes during geographical isolation, organisms eventually evolve to a point where they cannot reproduce with their relatives from a different area.
- What factors influence a species' chances of adapting successfully to a change in its environment?
  - The species' generation length and genetic variation.
- Why is the pace of human-driven evolution faster than that of natural evolutionary processes?
  - Because scientists can genetically modify organisms and use careful selection rather than waiting for nature to fuel evolution by chance.

#### Checkpoint 4:

- How do fundamental niches and realized niches differ?
  - Fundamental niches are broad guidelines for which each organism can survive and realized niches are the specific conditions in which an organism is currently surviving.
- How does environmental change determine species distribution? When does it lead to extinction?

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**Liying Dong** 

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