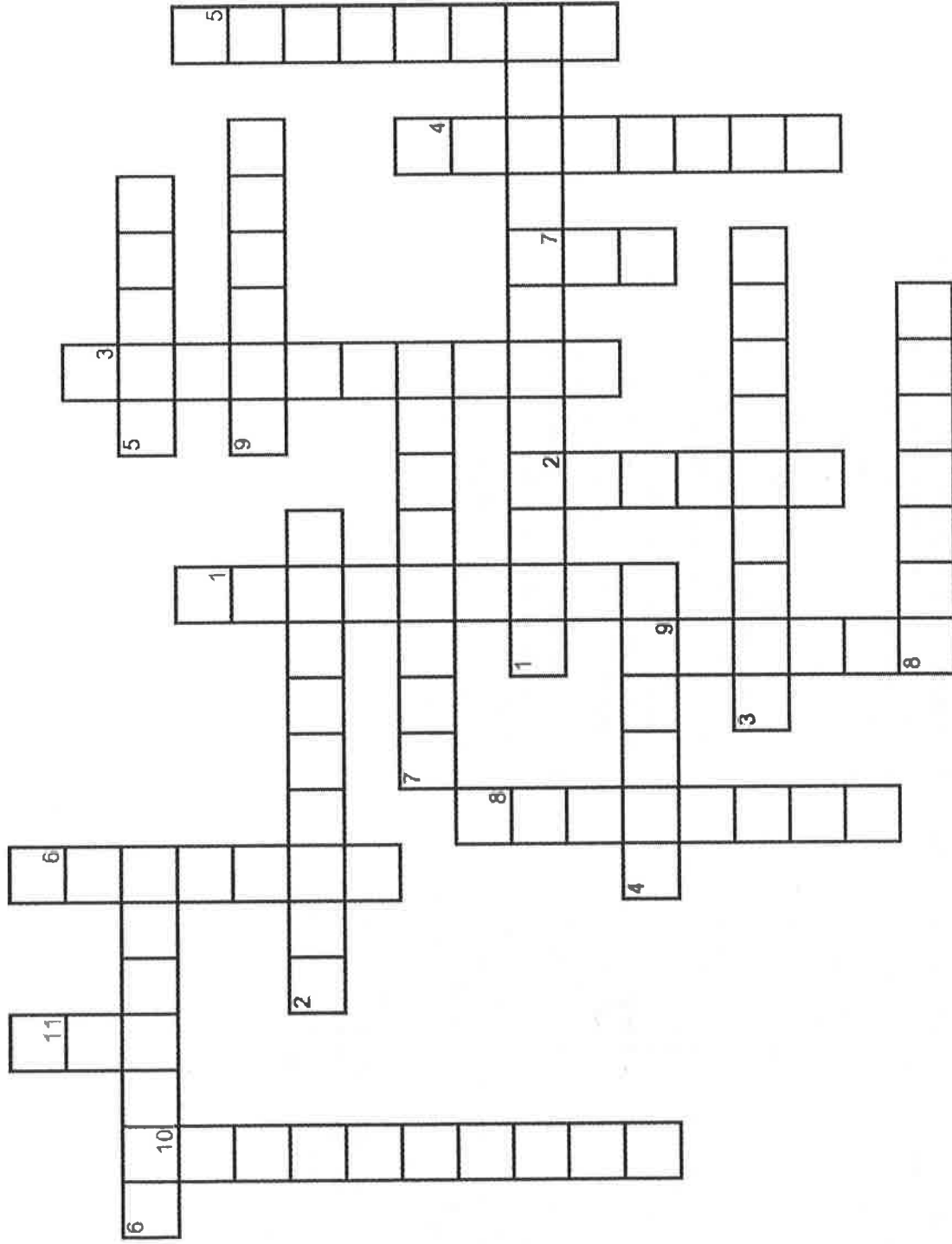


Name:

Date:

# Chapter 15: Darwin's Theory of Evolution



## Act 5

1. evidence for evolution by natural selection given by Darwin includes the fossil record, the geographical \_\_\_ of living species, homologous structures of living organisms, and similarities in early development
2. islands where Darwin made important observations
3. a very large number of varied living things exist on Earth, we call this the \_\_\_ of life
4. geologist who influenced Darwin's thinking; proposed that the Earth was much older than a few thousand years
5. geologist who influenced Darwin's thinking; wrote Principles of Geology, said that we must explain the past history of Earth in terms of processes that we can observe today
6. economist who influenced Darwin's thinking; proposed that if the human population continued to grow unchecked, there would eventually be a shortage of living space and food for everyone.
7. part of Darwin's theory of evolution; because many more individuals are born than can possibly survive, a \_\_\_ for existence occurs.
8. Central idea in Darwin's theory of evolution; in \_\_\_ selection, the conditions of the environment select traits that are most fit. This can lead to changes in species over time.
9. the logical conclusion of Darwin's theory of evolution; \_\_\_ descent; a single "tree of life" links all living things on Earth to a common living ancestor

## Down

1. change over time
2. well-tested explanation that unifies a broad range of observations
3. possible explanation for a set of observations or possible answer to a scientific question
4. a huge amount of this is required in order for a hypothesis to be accepted as a theory
5. Darwin observed \_\_\_\_, or a repeating order, in the diversity of life.
6. preserved remains of ancient organisms
7. Lamarck proposed that through selective \_\_\_ or disuse of organs, organisms acquired or lost traits during their lifetime. These traits could be passed on to their offspring, and lead to changes in species.
8. Lamarck's theory of evolution depends upon the inheritance of \_\_\_ traits, which has not been observed in organisms.
9. Darwin's book; On the \_\_\_ of Species
10. in \_\_\_ selection, humans select variations they find useful to change species to suit their needs.
11. Darwin proposed that organisms that win at the struggle for existence are the ones that are most \_\_\_.