Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_

Lesson **1 Assessment**

**Part 1:Fill in the Blank (10 points)**

Complete each statement by filling in the blank with the best vocabulary term. Words may be used once, more than once, or not at all.

**WORD BANK**

Sustainability\*\*Unsustainably \*\*Natural Resources\*\* Ecosystem Services\*\* \*\*Environmental Degradation\*\*

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the capacity of the Earth’s natural systems to maintain stability of life. There will be many challenges for us to achieve this. For example, people are living 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and depleting the Earth’s 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. People do not always realize that they are participating in 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ but we all contribute to some extent.

\*\*Garret Hardin\*\* Tragedy of the Commons\*\* Conflict\*\* Long-term\*\* \*\*Scientific Research\*\* Environmental Science\*\*

Biologist 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_described a situation where there is a 6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between the short-term interests of individuals and the 7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ welfare of society. Hardin called the situation 8.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This situation results in sixty percent of the Earth’s ecosystem services being overused. There is some good news though, for example we can use creative thinking, 9.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and political pressure to improve the quality of life for people now and into the future but it all starts by studying 10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ where you will develop an understanding for the problems and challenges that face us so you can solve them.

**Matching: 10 points**

11.\_\_\_\_\_Worldview

12.\_\_\_\_\_ Life-centered worldview

13.\_\_\_\_\_Environmental ethics

14.\_\_\_\_\_Environmental science

15.\_\_\_\_\_Environment

16.\_\_\_\_\_Exponential growth

17.\_\_\_\_\_ Nonrenewable resource

18.\_\_\_\_\_Inexhaustible resource

19.\_\_\_\_\_ Environmental worldview

20.\_\_\_\_\_Environmental degradation

1. Worldview holding that all species have value in fulfilling their particular

role within the biosphere, regardless of their potential or actual use to society.

1. All external conditions, factors, matter, and energy, living and nonliving, that affect any living organism or other specified system.
2. An individual's set of assumptions and values concerning the natural world and what they think their role in managing it should be.
3. Study of varying beliefs about what is right or wrong with how people treat the environment.
4. Interdisciplinary study of how humans interact with the environment
5. Worldview maintaining that people are part of, and dependent on, nature.
6. Resource available in continuous supply for the conceivable future.
7. Depletion, deterioration, or waste of Earth's natural capital.
8. Growth in which some quantity, such as population size or economic output, increases at a fixed percentage per unit of time.
9. Resource that exists in a fixed amount and takes millions to billions of years to form.

**Multiple Choice: 10 points**

1. Wind, moving water and solar energy are all derived from
2. electrical energy
3. lightning
4. the sun
5. The state in which a human population can survive indefinitely is called
6. sustainability.
7. loss of biodiversity.
8. renewable resource.
9. The study of how humans interact with the environment is called

A. environmental science.

B. ecology.

C. agriculture.

1. Single identifiable source that discharges pollutants into the environment. Examples include the smokestack of a power plant, drainpipe of a meatpacking plant, chimney of a house, or exhaust pipe of an automobile.
   1. life-centered worldview
   2. point source of pollution
   3. nonpoint source of pollution
2. What essential resource is likely to limit the how many people the Earth can hold?

A. water

B. oil

C. space

1. The human population growth rate in 2020 can be best described as
2. exponential
3. logistical
4. slow growth
5. Hardin's "Tragedy of the Commons" essay addressed the conflicts associated with which environmental challenge?
6. preventing pollution
7. preserving biodiversity
8. protecting shared resources
9. Population growth can result in what ethical environmental problem, addressed by ecologist Garrett Hardin in “The Tragedy of the Commons"?
10. the conflict between water resources and industrial growth
11. the conflict between individual interests and the welfare of society
12. the conflict between forest resources and the lumber companies
13. The ecological footprint of an individual is based on what requirements for supporting him/her?
14. land used for crops
15. land taken up by housing
16. forested area that absorbs pollution
17. all the above
18. Attempts to create a sustainable society strive to achieve what?
19. greater resource consumption
20. stable resource consumption
21. negative population growth

**Critical Thinking: 5 total points**

1. (2 points) **Define** sustainability and **discuss** one challenge that humans face to achieve sustainability.

Definition:

Challenge:

1. (1 points) **Identify** one factor that may cause an individual or family to have a higher ecological footprint.
2. (1 point) Choose **one** factor (**economic, political, ethical**) and describe how that factor has an influence on sustainable living.
3. (1 point) **Explain** how different worldviews (environmental, human centered, life centered, Earth centered) create challenges as we strive for a sustainable Earth.