

Chapter 1 HMWK

1. Define *Earth capital* and *solar capital*.
 - Explain the relationship between Earth capital and sustainable society.
 - Distinguish between living off of principal and living off of interest.
 - Analyze which of these behaviors humans are currently illustrating.
 - Evaluate the possibility of continuing to live in our current style.
2. Distinguish between exponential growth and linear growth.
 - Describe what has happened to the length of the doubling time of the human population over the course of human history.
 - Define *gross national product*.
 - Describe the wealth gap and its development since 1960.
3. Distinguish among renewable, potentially renewable and nonrenewable resources.
 - Distinguish between recycling and reuse strategies to extend supplies of nonrenewables.
 - Describe a connection between potentially renewable resources and the concepts of sustainable yield and environmental degradation.
 - Define the components of biodiversity.
 - Explain the significance of biodiversity as a potentially renewable resource.
4. Describe the *tragedy of the commons*.
 - List three approaches which might reduce this problem.
 - Evaluate the significance of a prevention or precautionary approach.
5. Distinguish between point sources and nonpoint sources of pollution.
 - Distinguish among degradable, slowly degradable, and nondegradable pollutants.
6. Distinguish between pollution prevention and pollution clean up.
 - Explain the limitations of pollution clean-up strategies.
 - Explain the general relationship between pollution control and developing countries, using Poland as
 - an example.
7. Summarize the root causes of environmental problems.
 - Describe a model of relationships among population, resource use, technology, environmental
 - degradation, and pollution.
8. Define *environmental worldview*.
 - Distinguish between a human-centered worldview and an Earth-centered worldview.
9. Evaluate the sustainability of human societies at this point in time.
 - List five guidelines that would move the United States toward sustainability.