Introduction to Environmental Science - Notes

The Environment includes…

Define Environmental Science:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_The study of how LIVING THINGS INTERACT with EACH OTHER and with their NONLIVING environment:

Environmental Science is **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

An **environmental scientist** needs many different \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of science to do their work

Chemistry helps us understand \_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_ helps us understand how pollutants travel underground

\_\_\_\_\_\_\_\_\_\_ gives information about how to preserve species

Many other disciplines contribute to Environmental Science!

List the three categories of Environmental Problems below:

1.

2.

3.

A **resource** is **depleted** when a large part of it has been used up

Example:

Pollution: An **undesired** change in **air**, **water**, or **soil** that **adversely** affects the health, survival or activities of humans or other organisms

Example:

Loss of Biodiversity: A **loss** in the number and variety of **species** that live in an area

Example:

**Tragedy of the Commons**

**Essay** by Garrett Hardin

If **no one** has **\_\_\_\_\_\_\_\_\_\_\_** of a **resource** then it is more likely to be **over used**

Hardin used the example of a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** ground – **too many animals grazed** and the grass was **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

When common land was replaced by fields **\_\_\_\_\_\_\_\_\_\_\_\_ by people**, owners were **careful** not to put too many animals on the land

Example of Tragedy of the Commons:

The Law of Supply and Demand states: The **\_\_\_\_\_\_\_\_\_\_** the **demand** for a **something which is in \_\_\_\_\_\_\_\_\_ supply**, the **\_\_\_\_\_\_\_\_** that thing is **worth**

As the **\_\_\_\_\_\_\_\_\_** of something goes **up**, **demand** goes **\_\_\_\_\_\_\_**

**Developing and Developed Countries**

**Developed Developing**

**Consumption**

Developed nations make up \_\_\_\_\_ of the world population but consume \_\_\_\_\_\_ of the world’s resources

In the U.S. (5% of global population) we consume \_\_\_\_\_ of the world’s commodities and produce \_\_\_\_\_\_ of the world’s industrial waste.

**Sustainability: Living** so we are able to **meet our needs** in such a way that the human population can **survive indefinitely.**