**Human Impact (including Air Quality) and Cycles Review Sheet**

**Be able to answer the following questions, and explain the following concepts**

This review is **for you**. I suggest answering all of these questions, and researching these topics, but I will not be collecting this. The note blank pages corresponding to each topic are in parenthesis.

**Human Impact** (Human Impact: 61-64, Air Quality and Climate Change: 72-75)

Air Quality

 How is smog formed?

 What is a particulate and where does it come from?

 How does smog and particulates affect human health?

Climate change

 What is the greenhouse effect?

 Name the 4 greenhouse gases we talked about in class?

 How do greenhouse gases affect the climate?

 What is the evidence that climate change is happening?

 What are the consequences of a warmer planet?

Water Quality

 What is eutrophication (nutrient loss in water) and how does it happen?

 What is biomagnification?

Other Human Impacts you should be familiar with

 Habitat fragmentation

Introduced species

Invasive species

Ecological footprint

Population growth graph

 What is the difference between a logistic graph and an exponential graph?

 What are the different parts of a logistic graph?

 Humans grow at an exponential rate. Why?

 What is carrying capacity?

What are limiting factors, and what are examples of some?

 Logistic graphs demonstrate negative feedback and exponential demonstrate positive feedback.

**Cycles** Be able to draw each, and recognize all parts and terms (Nutrient Cycles: 69-71)

Water cycle

 Evaporation

 Condensation

 Precipitation

 Transpiration

 How and where does transpiration happen, and what affects its rate?

Carbon Cycle

 What role does photosynthesis play?

What role does cellular respiration play?

Know what happens to carbon as it cycles through the environment.

What happens when fossil fuels are burned?

Nitrogen Cycle

 Know what happens to nitrogen as it cycles through the environment.

How do plants and animals get nitrogen into their bodies?

Why do plants and animals need nitrogen?