Planet in Peril – Part II

**Greenland Ice Sheet**

1. What chemical in the atmosphere is responsible for the warming of our planet?
2. What is believed to be the source of this chemical?
3. What physical evidence do scientists have that the Earth is warming?
4. What technology do scientists use to monitor climate change?
5. How do mulans accelerate the melting of ice sheets?
6. Will capping carbon dioxide levels at present levels stop global warming?

**Polar Bears in Alaska**

1. What technology do wild life biologists use to study polar bears?
2. If you were a United States Geologic Survey (USGS) wild life biologists, what data would you take on polar bears to determine if they were being affected by global warming?
3. Why do polar bears need the ice sheets?
4. What is an apex predator and why are they important to an environment?
5. What is an endangered species and why would it be important to put them on the list?

**Climate Change in the South Pacific**

1. What is the relationship to global warming and increased sea levels?
2. What could be the reason for the Carterette Islands sinking?
3. What are some problems associated with the sinking of the island?
4. What technology do scientists use to study coral reefs?
5. What is coral bleaching?

**Lake Chad**

1. How is the lake ecosystem changing?
2. Why is Africa the most vulnerable to climate change?
3. Why are fish stocks so poor in Lake Chad?

**Those Who Don’t Believe**

1. What is the role of the Intergovernmental Panel on Climate Change?
2. What are some of the problems with the models that predict climate change?
3. How do ice core samples help reduce the error of our climate models?

**Brazil**

1. Why is deforestation a problem in Brazil?
2. Why should we care about the rainforest?
3. Why is poverty a key factor in deforestation?
4. What is the role of fire in helping a forest?
5. What is sustainable development?

**Cancer in America**

1. What was the cause of her son’s leukemia?
2. What is a carcinogen?
3. What is the connection between race and environmental degradation?
4. What hidden costs are associated with environmental degradation?
5. What is the “Tragedy of the Commons?”