

# Outline for Impacts of Global Warming Research Project

## **Project Description:**

For this portion of the Climate Change discussion, student teams will be assembled and charged with becoming “experts” on one impact topic. Each research team will be assigned a specific set of focuses to drive their research. At the conclusion of the research period, student teams will be responsible for presenting their findings to their peers. The instructor will be sure to emphasize links between each impact topic to show areas of overlap and concern.

## **Expectations for Impact Presentation:**

### Link: Impacts of Climate Change

- ❖ Be sure to deliver the speaking points related to the “Impact Focuses” assigned to your research team.
- ❖ Highlight and define the relevant vocabulary associated with your presentation.
- ❖ Include visual aids such as maps, models, and graphs to better represent the data you are reporting on.
- ❖ Define the roll in both research and presentation for each member of your team.

## **Research Team Topics:**

### **Agriculture :**

#### **Impact Focuses**

- Discuss the different challenges for the following sectors: crops, livestock, and fisheries.
- International Impacts on agriculture

### **Energy**

#### **Impact Focuses**

- Elevated air and water temperatures and its effect on energy supply and demand
- Water availability and energy production
- The effect of sea level rise, storm surges, and extreme events

## **Water Resources**

### **Impact Focuses**

- How can the water cycle be disrupted?
- How will water demand be affected? Site the effects on the Colorado River as an example.
- Discuss the effects on water quality with a focus on coastal water supplies

## **Ecosystems**

### **Impact Focuses**

- Timing of seasonal life cycle events
- Range shifts for habitats
- Food web disruptions

## **Coasts**

### **Impact Focuses**

- Sea level rise and coastal flooding
- Changes in storm surge and precipitation
- Focus specifically on the maps provided for Long Island

## **Human Health**

### **Impact Focuses**

- The impact on air quality
- Vector borne Diseases
- Water-related illnesses
- Nutritional effects on food supplies