## **Lesson 4: Connecting Human Activities to Climate Change Effects**

### **Discussion Questions: What evidence suggests the climate is changing? What evidence suggests that human activities are responsible for the climate changes we see taking place?**

#### **Discussion Preparation Guide**

After the card sort activity, pick one or two graphs from each category that you think, when put together, make the most compelling argument that the climate is changing *due to human activity*.

|  | **Figure Title** | **What variables are being compared in this figure?** | **How does this figure answer the question?** |
| --- | --- | --- | --- |
| **Example** graph making the case that the climate is changing | “Observed Change in Global Average Temperature” | Year  Temperature change | This figure shows an effect of climate change on temperature. The temperature stayed about the same from 1850–1930, as evidenced by the horizontal trend. Starting in 1930 the temperature started rising. This shows a change in climate because in 2010 it was 1.5 degrees warmer than it was in the early 1900s. |
| Which graph did you choose to make the case that the climate is changing? |  |  |  |
| Which graph did you choose to make the case that human activities are changing the climate? |  |  |  |

Socratic Seminar Notes: Climate Change Evidence

Your assessment will be to compare one of the infographics showing an effect of climate change with one of the graphs showing human influence and use these two lines of evidence to support the claim that the climate is changing due to human activities.

**High quality contributions**

| Person who shared | What they said | What kind of communication was this? |
| --- | --- | --- |
|  |  | * Question * Response * Evidence from text * Other |
|  |  | * Question * Response * Evidence from text * Other |
|  |  | * Question * Response * Evidence from text * Other |
|  |  | * Question * Response * Evidence from text * Other |
|  |  | * Question * Response * Evidence from text * Other |

##### **My notes**

