**Causes and Effects of Climate Change**

You and a partner (**THAT’S IT, NO MORE, NO LESS**) will receive, either a cause of climate change or an effect of climate change. However, some of the effects are themselves causes for other effects. For your given topic, research what it is and find another pair of students who links to your topic.

Example:

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| Your topic | Melting Ice Caps |
| Is it a cause/effect/both? | This is both a cause and effect |
| Description | Due to increase in global air and ocean temperatures, the polar ice caps and glaciers are melting faster than new ice is formed. |
| Other topic linking ours  Is this topic a cause or effect of yours | Lower Albedo |
| Description of other topic | Surfaces with lower albedo are darker, non-reflective surfaces which causes more incoming radiation to be absorbed by the Earth. |
| Is this topic a cause or an effect of your topic? Explain | It is an effect of melting ice because snow and ice have a very high albedo. Since we are lowering the amount of snow and ice in the world, the average albedo is dropping |
| Is your topic a part of a feedback loop (if you continue down the path of effects, do you reach your topic again)? | Yes. The lower albedo causes more radiation to be absorbed, which raises the ocean and air temperatures, which leads back to more ice being melted. |

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| --- | --- |
| Your topic |  |
| Is it a cause/effect/both? |  |
| Description |  |
| Other topic linking ours |  |
| Description of other topic |  |
| Is this topic a cause or an effect of your topic? Explain |  |
| Is your topic a part of a feedback loop (if you continue down the path of effects, do you reach your topic again)? |  |

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| Water Vapor (H2O) | Changing Air Currents | Increased Ocean Temperature |
| Carbon Dioxide (CO2) | Increased Atmospheric Temperature | Changes in Rainfall |
| Methane (CH4) | Lower Ozone Levels | Tropical Storms (Hurricanes and Typhoons) |
| Nitrous Oxide (N2O) | Lower Albedo | Poor Air Quality |
| CFC’s | Sea Level Rise | Increased Radiation |
| Deforestation | Coral | Increased Ground Temperature |
| Aerosols | Poison Ivy | Decrease Outgoing Radiation |
| Heatwaves | Drought & Decreased Water Availability | Loss of Species and Biodiversity |
| Increased Forest Fires | Heat-related Deaths | Loss of Food Security |
| Vector Borne Disease | Loss of Habitat | Loss of small islands and coastlines |