**2.6.2b Greenhouse Effect**

* **Climate Change**
	+ All life on Earth depends on climate conditions like and .
	+ Our planet is getting —the 2000s were the warmest decade ever recorded. The term used to describe this increase in the average temperature of the Earth is .
	+ Scientists are trying to determine if this is a of climate change or if it is caused by
* **Greenhouse Effect**
	+ The is a natural warming of both Earth’s lower atmosphere and Earth’s surface from solar radiation being absorbed and emitted by the atmosphere.
	+ The most widely accepted hypothesis is that global warming is at least partially due to human activities that add and other to the atmosphere.
		- Other greenhouse gasses include:
			*
			* Carbon Dioxide (CO2)
			*
			*
			*

*Draw a diagram of the Greenhouse Effect:*

*What do you think?*

* **Global Warming**
	+ According to this hypothesis, the burning of combined with cutting and burning of worldwide is adding carbon dioxide to the atmosphere faster than it can be removed in the .
	+ This causes heat from the sun to be trapped in the air instead of being bounced back into space, which makes the planet warmer.
* Why do we focus on CO2?
	+ We emit more than any other greenhouse gas.
	+ While other gasses may trap more like methane, they are harder to (“natural sources”)
	+ Acid Rain
		- Forms when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (remember from our NASA Satellite images) and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_are released into the air.
		- These mix in the clouds to form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which can affect the acidity of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, harm wildlife, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.