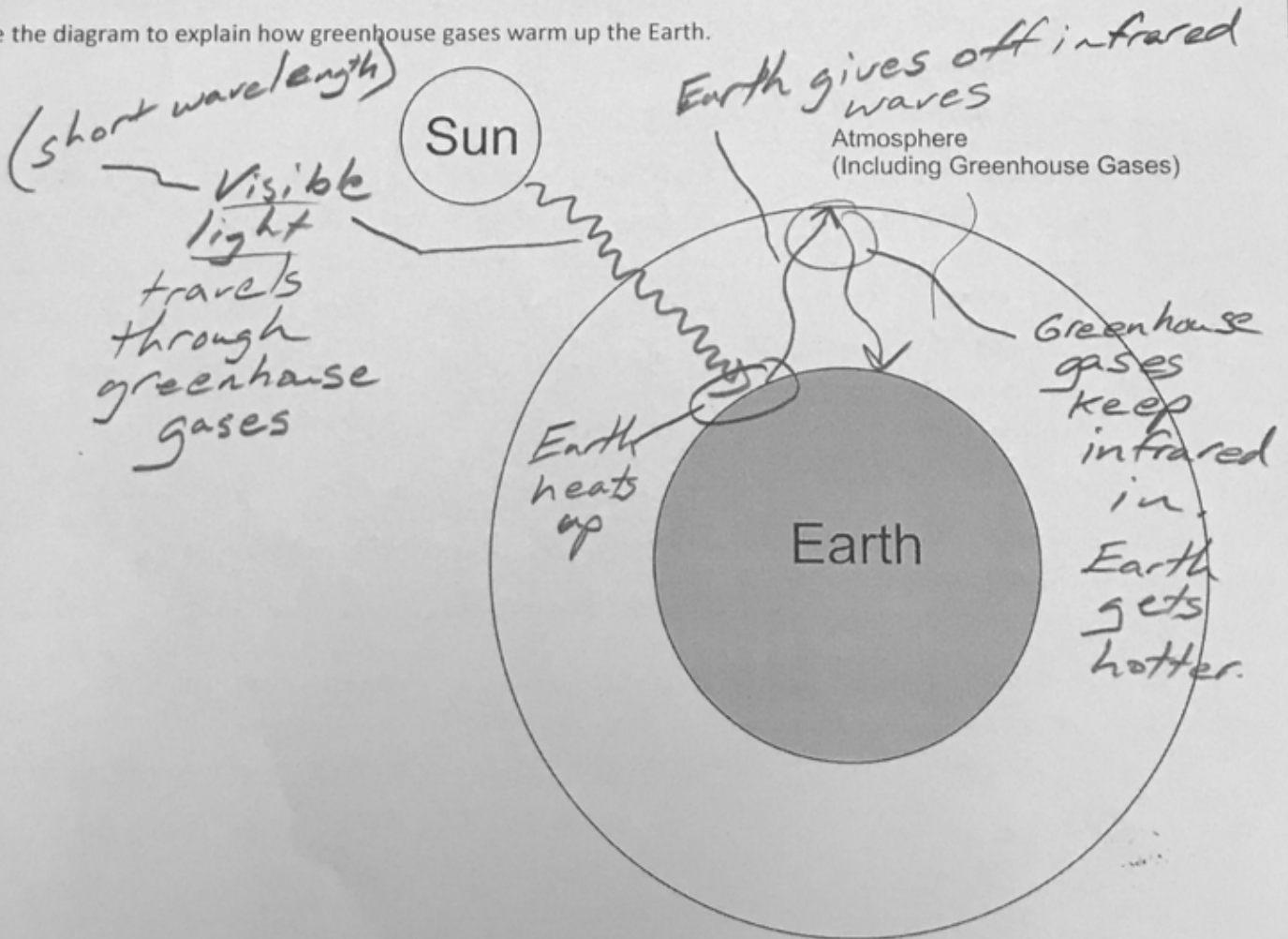


1. What is the difference between *Climate Change* and *Global Warming*?

- Global warming refers to: increasing average temperature of Earth.
- Climate change refers to: long term changes in temperature, precipitation, and wind in specific locations.
- Can climate change cause some areas to become cooler?

Yes, but most will become hotter

2. Use the diagram to explain how greenhouse gases warm up the Earth.



What are the top 4 greenhouse gases, in order of their contribution to global warming, and where do they come from?

Rank	Name of Gas	Source(s)
1.	Water Vapor	Evaporation, Burning Stuff, Breathing
2.	Carbon Dioxide	40% Electric Generation using fossil fuels 30% Transportation (cars, trucks, ...)
3.	Methane	Cow Farts Swamp mud
4.	Nitrous Oxide	Soil, agriculture, burning stuff

	Impacts of global warming	Reasons
1	Sea level Rise	- Melting ice caps/glaciers - Expansion of water from heating
2	Discomfort in warmer climates	
3	Decreased Biodiversity	- Many plants/animals won't be able to adapt to new climate.
4	Ocean Acidification	- CO ₂ reacts with sea water to make carbonic acid.
5	Less useful fresh water	- Lower snowpack - Less consistent precipitation
6	More pests	- Small pests survive better in warmer climates
7	Changes in crop yield	- Warming may help in some places, hurt in others - More CO ₂ means more plant growth
8	Changes in lifestyle	- No more VT skiing, snowmobiling, ice fishing, skating...