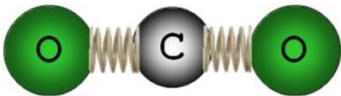


1. Describe the greenhouse effect. (Include diagrams to aid your explanation)

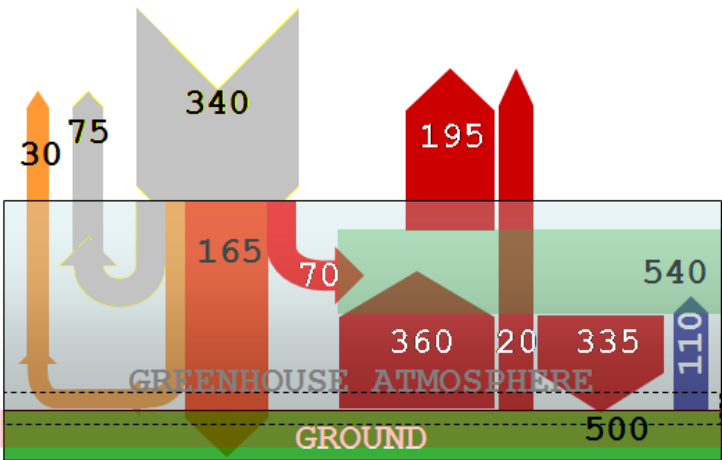
The following questions are about the greenhouse gases.



2. Explain the four molecular mechanisms by which greenhouse gases absorb infrared radiation.
3. Rank (from highest to lowest in importance) the main five greenhouse gases which absorb thermal (IR) radiation.

The following questions refer to this energy model .
The units are $W\ m^{-2}$.

4. Does this model show a stable, or an unstable temperature. What evidence is there to justify your choice



5. What is the intensity of all **reflected** radiation?
6. What is the intensity of the radiation scattered (absorbed and released) by just the atmosphere?
7. What is the intensity of the radiation into space having the greenhouse gases as the source?
8. What is the intensity of the radiation absorbed from the greenhouse gases by the ground?