

## Is It a Greenhouse Gas? Student Data Collection Sheet

| <b>Gas</b>            | Absorption Wavelengths of Infrared Radiation<br><br>(IR wavelength range 0.75 micron-1000 microns) | Percent Absorption at a Particular Wavelength | % of Gas in Atmosphere | Global Warming Potential (GWP) | Number of Vibrational Modes | Change in Temperature Values from "Trapping Heat with Carbon Dioxide" Lab | Is there Evidence that this is a GHG?<br><br>(Yes or No) |
|-----------------------|--|---|------------------------|--------------------------------|-----------------------------|---|--|
| <b>CO<sub>2</sub></b> | _____<br>_____<br>_____  | _____<br>_____                                |                        |                                |                             |   |  |
| <b>CH<sub>4</sub></b> | _____<br>_____<br>_____  | _____<br>_____                                |                        |                                |                             | N/A   |  |
| <b>O<sub>2</sub></b>  |  |   |                        |                                |                             | N/A   |  |
| <b>Air</b>            | N/A  | N/A   | 100%                   | N/A                            | N/A                         |   | N/A  |