**MOLECULES and LIGHT**

*Today you are going to use a sim to explore how light interacts with molecules in our atmosphere.*

**I.** Explore the sim with a partner.

 What are some of your observations?

**II.** Explore what happens for each type of light.

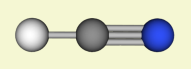


What patterns did you find? What ideas do you have about how the sim relates to your everyday life?

**III.** Explore what happens for each molecule.



What patterns did you find?



Based on your observations, how would you predict HCN to interact with microwaves?

**IV.** Look closer at how infrared light affects water in the sim or in the movie below.

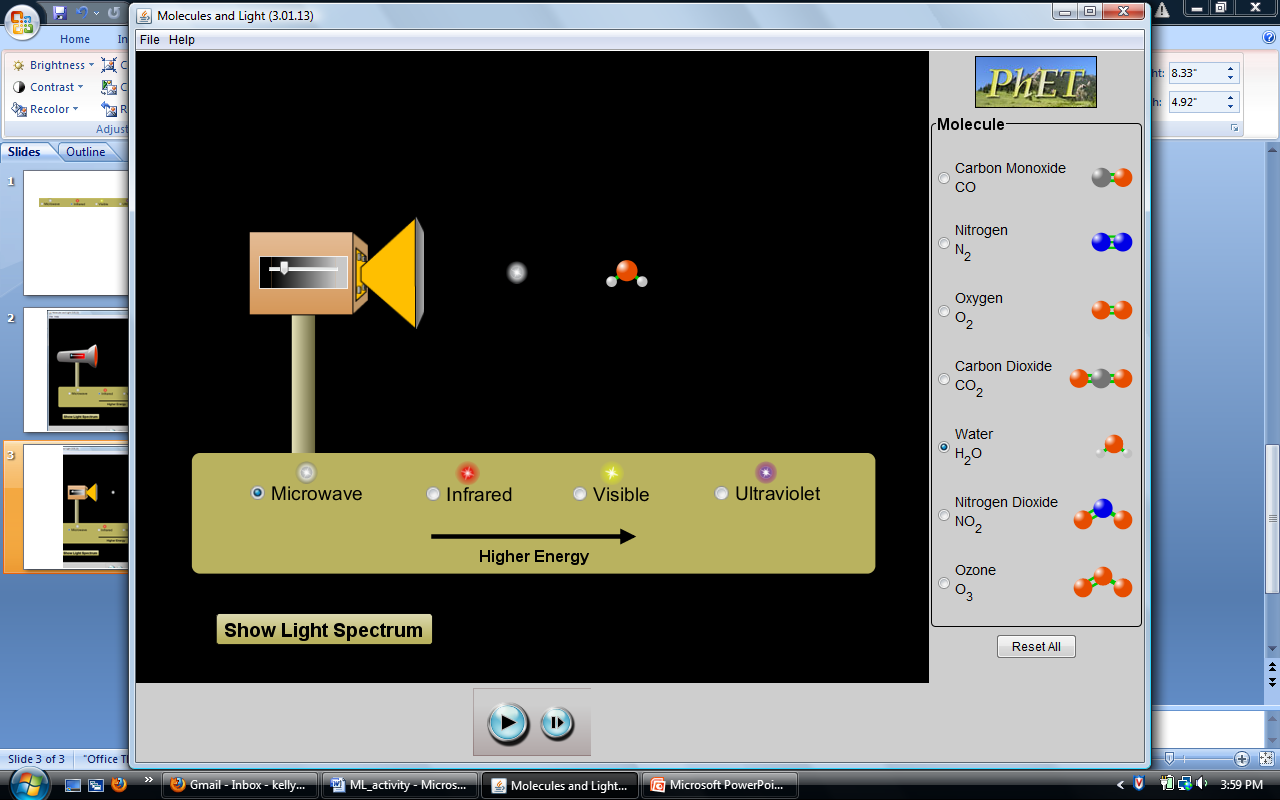


What do you think is happening?

**V.** Pick one of the topics below to study in more depth. Prepare to share your ideas with the class by making sense of what you discover.

1. **Microwaves**

How do microwave ovens work?



2. **Greenhouse effect**

What is a greenhouse gas?



3. **Ozone layer**

Why is the ozone layer important?

