

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Lesson 5: Is it normal that world temperatures are rising this fast?

**Do Now:** The following statements relate to the greenhouse effect. Write T or F depending on if the statement is true or false. **If the statement is false, correct it to make it true.**

- a) Greenhouse effect is a “bad” thing for planet Earth, and it is also known as global warming. \_\_\_\_\_  
\_\_\_\_\_
- b) Greenhouse effect prevents infrared heat from escaping into outer space. \_\_\_\_\_  
\_\_\_\_\_
- c) 100% of the visible light from the sun that enters Earth’s atmosphere will be absorbed by the planet’s surface. \_\_\_\_\_  
\_\_\_\_\_
- d) Non-greenhouse gases can absorb and reradiate infrared heat. \_\_\_\_\_  
\_\_\_\_\_
- e) Most of the energy from the sun (insolation) is in the form of infrared heat. \_\_\_\_\_  
\_\_\_\_\_
- f) Greenhouse gases bounce or reflect infrared heat, and this is what keeps our planet warm. \_\_\_\_\_  
\_\_\_\_\_
- g) Visible light is absorbed and reradiated by greenhouse gases, warming our planet. \_\_\_\_\_  
\_\_\_\_\_

Why is the process discussed today called the greenhouse effect? Where does this name come from and how does the greenhouse effect work in that example? Use a greenhouse or a car as an example.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Procedure:** Jigsaw. Complete the table for your data set. Then, in your small groups, share information so that you have a summary of all of the data sets.

Data Set	Observations/Notes	Claims/Conclusions
1		
2		
3		
4		
5		
6		

7		
8		

**Scientific Explanation:** Why is global warming happening and should we be concerned about it? Use evidence from the jigsaw and class discussion to support your answer.

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

**Asking Questions:** What are you wondering now?

---

---

---

---



**Next Steps:** What ideas did your class come up with for what we should investigate in our next lesson?

---

---

---

---

