Lomax 8th Grade Science Outreach Learning
March 25 - 27, 2020

8th Grade Science Week of March 25, 2020

Teacher/Team:	**Kacey Sommers / 8th Grade Science**
If there are any questions, please feel free to email me/us at:	**Email:** sommersk@lpisd.org
Link to TEAMS Folder	Sommers 1st Period TEAMS Sommers 3rd Period TEAMS Sommers 5th Period TEAMS
	Connect with us on Remind! Text @sommers8 to 81010
Previous Lessons:	Before Spring Break, we learned about Chemical Reactions and Chemical Formulas!

Objectives

Objective / I Can:

- I can tell the difference between elements and compounds.
- I can spot a chemical reaction based on the 5 evidences.
- I can count atoms in a chemical formula.

Activities

NOTE: You can find a simplified format of this week's lesson as well as PDF documents of the activities in your class period's TEAMS. (See link above.)

Student Activities:

1. **Flipgrid Check-In!** (3 min)
    a. Go to the Flipgrid tab at the top of your class TEAMS. Type in the password **science103**. Sign in using your school email and answer this week's check in topic - **Welcome Back!** Tell Ms. Sommers - How are you? Are you ready for online learning? What are you excited about? What are you nervous about?
2. Teacher Introduction Video (3 min)
3. Chemical Changes Video (4 min)
4. Scavenger Hunt (20 questions = 40 minutes)

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CHEMISTRY SCAVENGER HUNT!

Directions: Look around your house to answer the questions below.

1. Find an element. _____
2. Find a compound. _____
3. Find an organic compound. _____
4. Find a mixture. _____
5. Find a metal. _____
6. Find a non-metal. _____
7. Find a gas. _____
8. Find a malleable substance. _____
9. Find a good conductor. _____
10. Find a poor conductor. _____
11. Find a physical change. _____
12. Find a chemical change. _____
13. Find an edible example of a physical change. _____
14. Find an edible example of a chemical change. _____
15. Find a substance with a density of less than 1 g/ml. _____
    (HINT: water has a density of 1 g/ml. So if it is less, it floats!)
16. Find a substance with a density of more than 1 g/ml. _____
17. Find an acid. _____
18. Find evidence of a chemical reaction. _____
19. Find a chemical reaction that occurs inside your house. _____
20. Find a chemical reaction that occurs outside your house. _____

BONUS: Describe the physical and chemical changes that occur when you eat your lunch.

When you have completed the scavenger hunt, click on your class period link below to input your answers onto your class form. (Remember: you WILL have to log into your student email the first time you access Microsoft Forms.)

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5. Quick Counting Atoms Practice (8 questions = 10 min)
   (If you forgot how to count atoms, watch this video here.)

WHAT IS AN ALIEN'S FAVORITE CANDY?

Directions: Count the atoms in each chemical formula. Find the answer below. Write the letter next to the answer in the correct box below. Answers will only be used once.

1. How many total atoms in K_2CO_3?	2. How many Oxygen (O) atoms in $2ZnSO_4$?
3. How many Phosphorus (P) atoms in $Ba_3(PO_4)_2$?	4. How many total atoms in Na_2CrO_4?
5. How many total atoms in $3CaCl_2$?	6. How many total atoms in C_4H_8FCOOH?
7. How many Iron (Fe) atoms in $4Fe_2O_3$?	8. How many total atoms in $3NaHCO_3$?

Answers:

16 (R)	2 (O)	7 (R)	6 (A)	8 (M)
6 (A)	17 (B)	5 (I)	18 (R)	6 (A)
4 (C)	9 (S)	2 (A)	5 (K)	8 (A)

1		2	3	4	5		6	7	8

When you have completed the problems, click on your class period link below to input your answers onto your class form.

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Additional Resources if you need help:

- Ms. Sommers' Office Hours Wednesdays (1-3) and Fridays (9-11)
  - Help via email, Remind, or video call via Microsoft TEAMS
- Extra Videos
  - Chemical & Physical Changes
  - Bill Nye Chemical Reactions
- Extra Practice
  - Chemical Reactions Quizizz CODE: 192260
  - Chemical Reactions & Formulas Quizlet
  - Chemical & Physical Changes Review Game Zone
  - Counting Atoms Review Game Zone

Academic/Instructional Support

Schedule:	Tuesdays and Thursdays – work on science work (If you need help or don't understand the lesson/activity, email Ms. Sommers or send a message on Remind.)
Office Hours:	Wednesdays 1:00 – 3:00 pm Friday 9:00 – 11:00 am

To Be Graded

Make sure you submit the following from this week's lesson through Microsoft Forms links above:

1. Quick Counting Atoms Practice
   ** DUE by 8:00am on Monday 3/30