

George Kelly School: 7th/8th Grade Science

Teacher	7 th Grade- Mrs. Basacker	8 th Grade- Mrs. Kaur
Office Hours By email	By email- kbasacker@tusd.net Monday - Friday from 8:00 am to 3:30 pm <i>*Emails received outside of these hours will be answered at teacher availability. Do NOT wait until due date to complete assignments!</i> CONTACT a FRIEND for assignment HELP too!	By email- gkaur@tusd.net Monday - Friday from 8:00 am to 3:30 pm <i>*Emails received outside of these hours will be answered at teacher availability. Do NOT wait until due date to complete assignments!</i> CONTACT a FRIEND for assignment HELP too!
By chat/video	Monday thru Friday from 10:00 am to 12:00 pm SEE padlet 'Distance Learning' page for ZOOM	Monday thru Friday from 10:00 am to 12:00 pm Through Office365 and Microsoft Teams
Digital Access to Curriculum	padlet.com/kbasacker	padlet.com/gkaur2

*****Find REFERENCE materials after each WEEKLY list of assignments*****

This Curriculum has been developed to support and reinforce the Integrated NGSS Middle School Standards through Earth, Life, and Physical Science (DCIs), as well as the Cross Cutting Concepts (CCCs), and Science and Engineering Practices (SEPs).

This packet includes 8 assignments for each week. Students are REQUIRED to complete 5 each week.

1) Procedure for completing an assignment

- Create an Interactive Notebook (not graded), **MUST include 4 assignments out the 7 choices** each week. (cannot repeat assignments or complete assignments NOT in current week) with as much detail as you need for assignment completion, for example: notes, pictures, observations, trials in the form of data tables, graphs, analysis of data, patterns, problems, ah ha's that resolve the problems, research, prior knowledge, your opinion, etc.
- The last assignment each week is **REQUIRED (REQ) for credit each week**, DUE on Sunday by 11:59 pm
- Extra credit possible, SEE #4 Grading Rubric below
**If completing Extra Credit, MUST be completed on 1 continuous document AFTER the required assignment*
- Students may complete and submit future weekly assignments earlier than posted due date

2) Format for REQUIRED graded assignment

Submit the following:

- Heading in top right corner
- Title of document is the Week #: date range
- Question# and complete Question
- Answer must be a MAXIMUM of 1 paragraph using Claim, Evidence, Reasoning format (CER).

3) Ways to turn in Required Assignment for grading

- Share via Office 365
- Attach document and send through email
- Scan or take a picture of document, attach and send through email
- Physical drop-off to school: **Fri. May 8 and Fri. May 15**
***Refer to GKE Drop-off Schedule**

Typed or Hand-written Assignment format

Week #: Date Range	Heading
Q# After finishing the 4 assignments in your notebook, analyze your data/work and reflect on your experience. Answer typed/hand-written below question in CER format below. <u>Requirements for CER paragraph (Maximum 10 sentences)</u>	
1) Claim- Topic sentence based on your learning experience in the 4 assignments you completed in your interactive notebook	
2) Evidence- At least 2 pieces of concrete evidence recorded in your interactive notebook for the assignment	
3) Reasoning- At least 2 sentences that explain the relation of your evidence to support your claim.	
4) Closing sentence	
*HINT: Use Evidence Sandwich/Precise Language reference sheets!	
EXTRA CREDIT	
Q# Complete question typed/written out.	
Answer typed/written below question.	

4) Grading Rubric

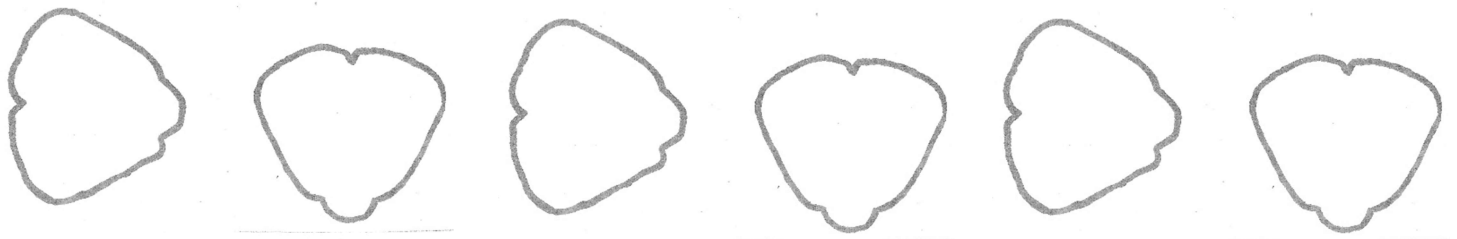
- Credit for REQUIRED assignment: **10 pts Claim + 10 pts Evidence + 10 pts Reasoning = TOTAL 30 Points**
- Check AERIES after Tuesday, 5/12 and Tuesday, 5/19, for credit earned on assignments.
- *c) EXTRA CREDIT of 2 points per each remaining assignment completed, in addition to the required five assignments for the given week. Maximum of 6 points.**

Assignments for WEEK #1: April 20-24, 2020**DUE by 11:59 pm Sun. 4/26/20****WK #1 Physical drop-off to school Fri. 5/8**

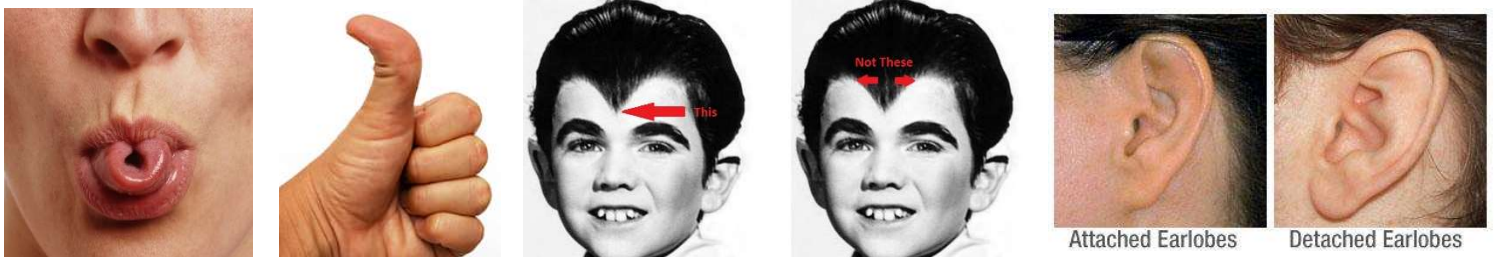
1a	Write down your most valued (non-living) treasure. List three ways science helped it to be made or to operate.
2a	Think of activities a robot could do that humans could not (or should not) do. List as many that you can think of.
3a	What are the main food categories? List the foods you have eaten in the last 24 hours.
*4a	Camouflage is a natural protection for animals. List animals that use camouflage for protection. Check reference materials section at the END of this document, cut or copy the moth models. Find 6 spots in your house and color each moth to camouflage into the spot. Optional: Challenge your family to find the moths! Record the time!
5a	Charles Darwin, a naturalist that sailed on the Beagle to the Galapagos Islands, first suggested the phrase, "survival of the fittest." What does this phrase mean?
*6a	The ability to curl the tongue, having a hitchhiker's thumb, a widow's peak, and attached earlobes are genetic traits. Are these traits dominant, recessive, or sex-linked?
7a	Fold your hands with your fingers laced together. Which thumb is on top? Try to fold your hands the opposite way. How does it feel?
8a REQ	SUBMIT for credit this week *SEE Cover Letter Section #2 for formatting After finishing the 4 assignments in your notebook, analyze your data/work and reflect on your experience.

Reference Materials

#4a



#6a



*1b	Fill a transparent glass about $\frac{3}{4}$ full with water. Put a wooden pencil, wooden chopstick, wooden skewer, into the glass. Observe the glass carefully from the side. Draw and label what you see. Record observations.
2b	You inherit a plot of land with no water, gas, or electrical lines to it, or sewer lines away from it. You want to build a house there. If you had a choice of water, gas, electricity, or sewer lines, which would you want?
*3b	At one time, the earth had one landmass called Pangaea. Pangaea broke into two large land masses called Laurasia (the north mass) and Gondwanaland. Laurasia and Gondwanaland broke into seven smaller land masses. Name the land masses.
4b	The first bicycles reached the U.S. from England in 1819. "Bi" means two. Cycle refers to a circle, or in this case, a wheel. Which form of locomotion would a 16-year old have hoped to have 100 years ago: a car or a bicycle? List as many reasons you can think of that a bike is better than a car, if you had two miles to go to get somewhere.
5b	Use 1 sheet of binder to tear out each of these shapes: square, rectangle, triangle, diamond, circle, and oval. Were you successful? If not, think about what you need to do before you try this again. Place the pieces on a table, close your eyes. Have someone remove one shape. See how long it takes for you to discover which shape is missing. Complete 4 times.
6b	Name an animal. Now name another animal whose name starts with the last letter of the first animal you named. Name a third animal whose name starts with the last letter of the second animal you named. Continue this pattern to see how many animals can be named in a row.
7b	Water has surface tension. To prove this, see how many drops of water you can pile onto a penny. Repeat 4 times.
8b REQ	SUBMIT for credit this week *SEE Cover Letter Section #2 for formatting After finishing the 4 assignments in your notebook, analyze your data/work and reflect on your experience.

Reference Materials

#1b



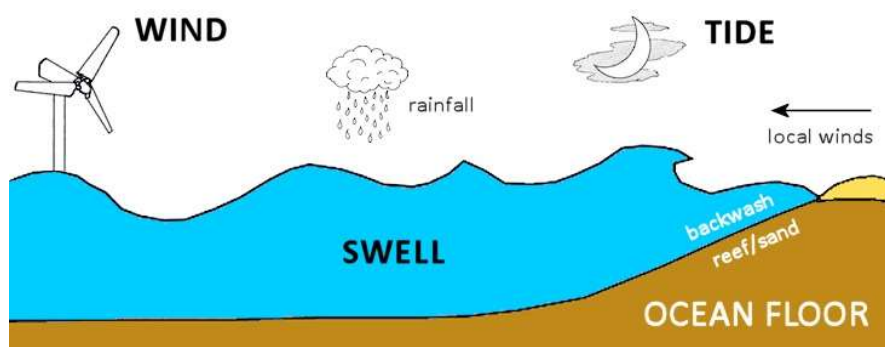
#3b



1c	Imagine that a submarine will be submerged at sea for a month, and you will be a passenger. Food will be provided in the mess hall. Your supplies are limited to a box of clothes and a one-cubic foot box for other items. What other items would you pack in the one-cubic foot box? Why?
2c	Mass is how much matter an item has. Weight is how much that matter presses down because of gravitational pull. The strength of gravitational pull depends on the mass of the astronomical body on which you are located. If you went to the moon, would your mass change? Explain. Would your weight change? Explain.
3c	The first talking film was released in 1927. What senses are used to view a talking film? What senses are used to view a silent film? Would you like it, if films incorporated more of your senses? For example, would you like it if the aroma of fried chicken was released into the theater, while the actors ate chicken on the screen? Explain.
*4c	What is the main cause of ocean waves? Why might a wave be higher one day than another? How can waves be dangerous?
5c	What is the difference between kinetic and potential energy? What kind of energy was used to propel Christopher Columbus' ships? Is this energy kinetic or potential?
6c	Will the water poured onto plants be used again? What environmental cycle demonstrates this?
*7c	The carotid artery in your neck is the artery paramedics would use to take your pulse in an accident or emergency. Using your pointer finger and tallest fingers, held together, find your carotid pulse. Count how many times it beats in sixty seconds. This is your pulse rate.
8c REQ	SUBMIT for credit this week *SEE Cover Letter Section #2 for formatting After finishing the 4 assignments in your notebook, analyze your data/work and reflect on your experience.

Reference Materials

#4c



#7c

