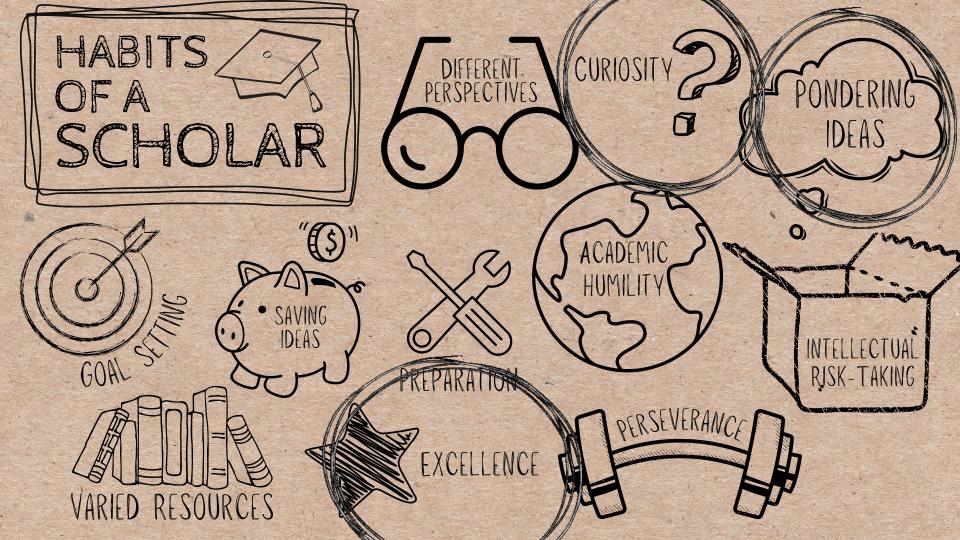




LET'S GET CURIOUS!



SYSTEMS HAVE PARTS THAT

SYSTEMS HAVE PARTS THAT

COMPLETE A

TASK.

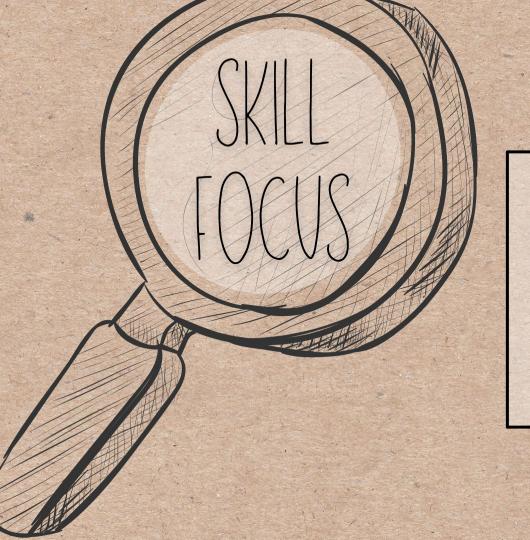
SYSTEMS INTERACT.

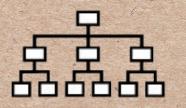
SYSTEMS FOLLOW RULES. SYSTEMS IN GENERALIZATIONS

PARTS OF SYSTEMS ARE INTERDEPENDENT UPON ONE ANOTHER AND FORM SYMBIOTIC RELATIONSHIPS.

A SYSTEM MAY BE INFLUENCED BY OTHER SYSTEMS.

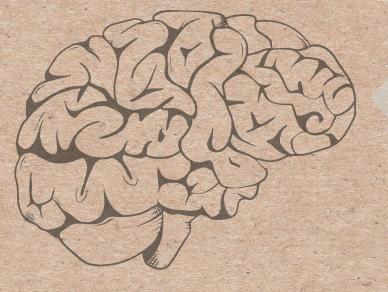
SYSTEMS ARE COMPOSED OF SUBSYSTEMS.





### Rules

Laws, expectations, standards and methods within a given field.



#### Chemistry

the study of matter, analyzing its structure, properties and behaviour to see what happens when they change in chemical reactions.



# IS IT A SYSTEM? ARA

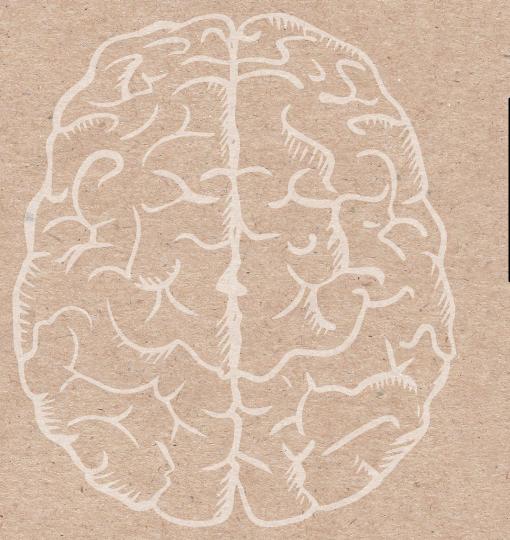
DOFS THE INTERACTION OF THE PARTS PRODUCE AN FFFF CT THAT IS DIFFERENT FROM THAT OF ANY PART ON ITS OWN?

ARE THERE PARTS?

DOES IT MATTER HOW THE PARTS ARE ARRANGED?

DO THE PARTS
AFFECT EACH
OTHER?

DOES THE BEHAVIOR OF THE SYSTEM CHANGE IF A PART IS TAKEN AWAY?



### It's Slime Time!



#### Slime #1

**Materials needed:** 1 bottle of elmer's glue, 1 tablespoon of baking soda, 2 tablespoons of contact solution, food coloring, ziploc bag

- 1. Add glue and food coloring to bowl. Squeeze the bottle of glue into a bowl. Add your food coloring if desired, and stir until combined.
- 2. Then mix in the baking soda.
- 3. Add 2 Tablespoons contact solution and mix until combined.
- 4. Using your hands, knead the slime until it holds together. It will be wet and gooey at first, but just keep kneading until it all comes together.
- 5. Store in a ziploc bag.



### Slime #2

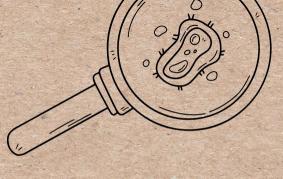
Follow the directions as a group to make your slime.



### Slime #3

Materials needed: 2/3 cup of Elmer's White Glue, 1/2 teaspoon Baking Soda, 1/4 Cup Water, 2-3 cups Shaving Cream (not gel), 1.5 Tablespoons Contact Lens Solution

- 1. Add glue to the bowl. Then add your water and baking soda. Then mix.
- 2. Add shaving cream. Then mix.
- 3. Add food coloring. Then mix.
- 4. SLOWLY add your contact solution. Add a little, then mix before adding a little more. Mix each time you add some.



# LET'S REFLECT

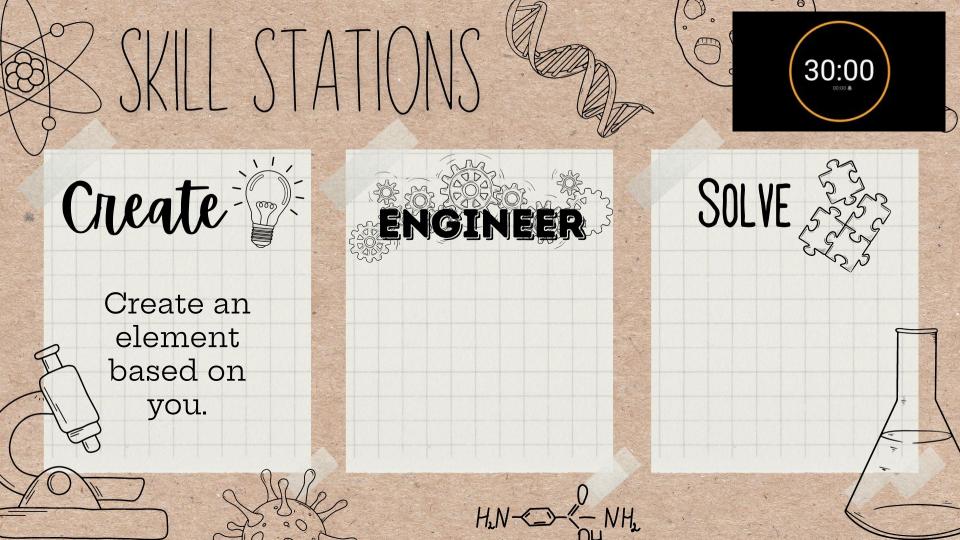
How did our breaking of the rule in Slime Lab #2 change the results?

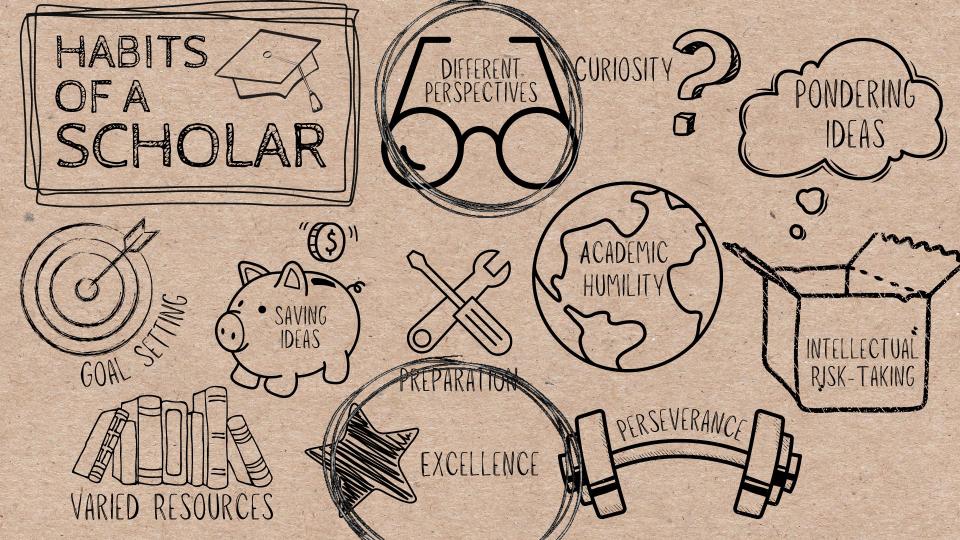
How much change would happen in other recipes if rules were not followed?

Defend the statement that "Systems Follow Rules."



### Week 2







1, 17 1, 2. ? ? 6

# LET'S GET CURIOUS!



SYSTEMS HAVE PARTS THAT

SYSTEMS HAVE PARTS THAT

COMPLETE A

TASK.

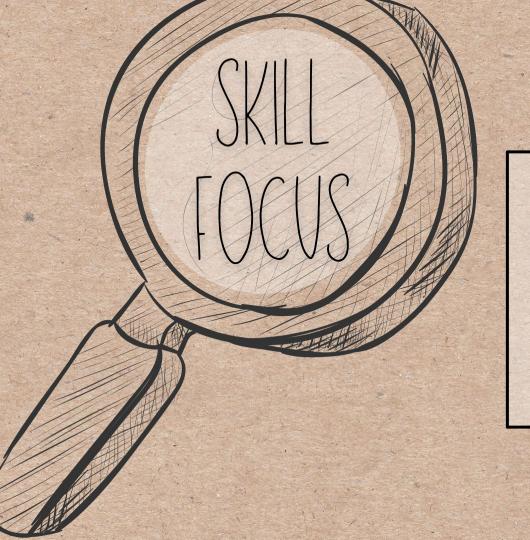
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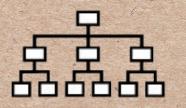
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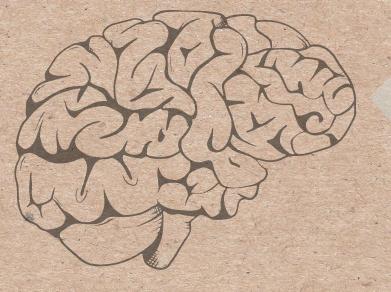
SYSTEMS ARE COMPOSED OF SUBSYSTEMS.





### Rules

Laws, expectations, standards and methods within a given field.



#### Chemistry

the study of matter, analyzing its structure, properties and behaviour to see what happens when they change in chemical reactions.



What chemistry and examples of systems did you see in the Curiosity?

# IS IT A SYSTEM? ARA

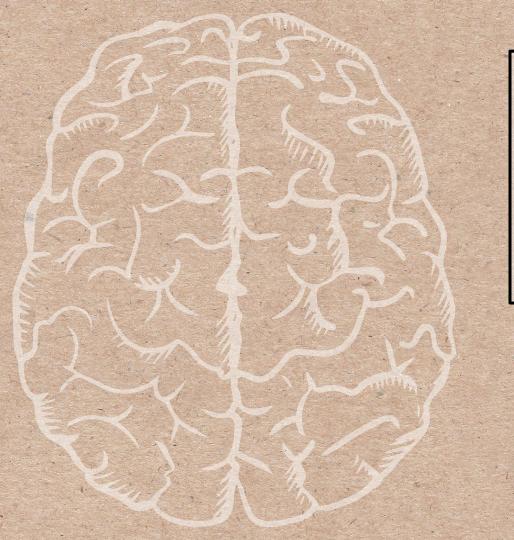
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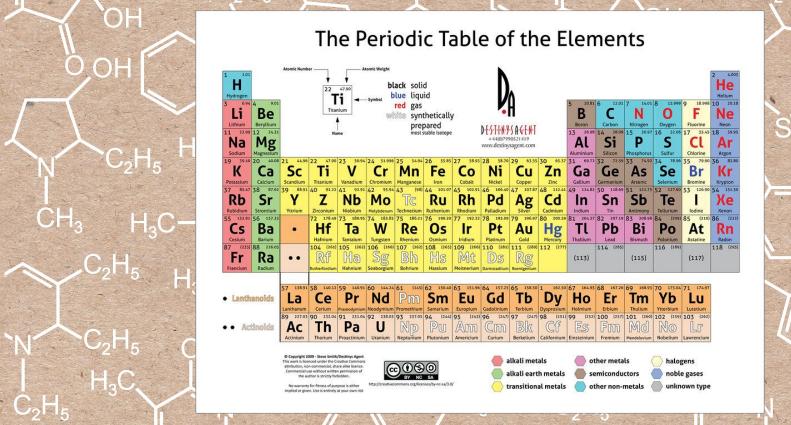
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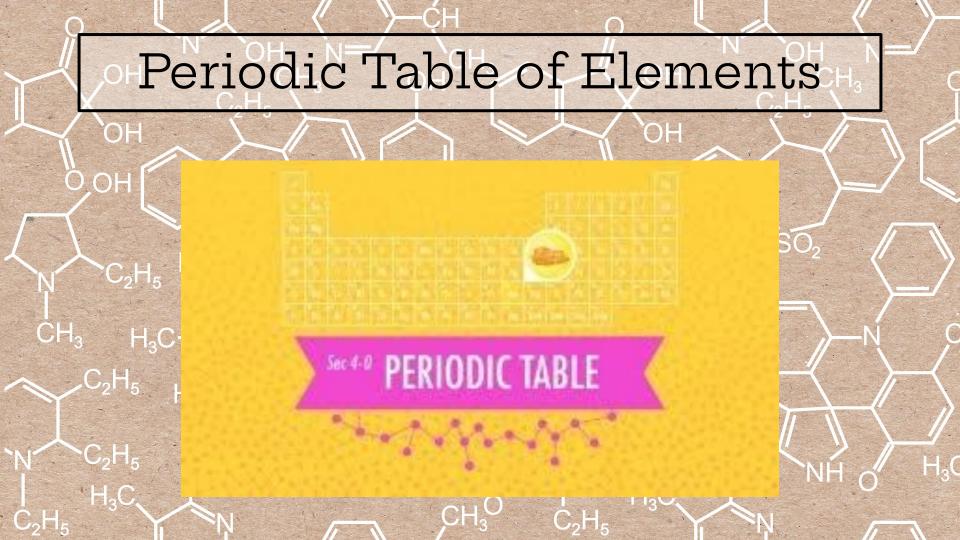


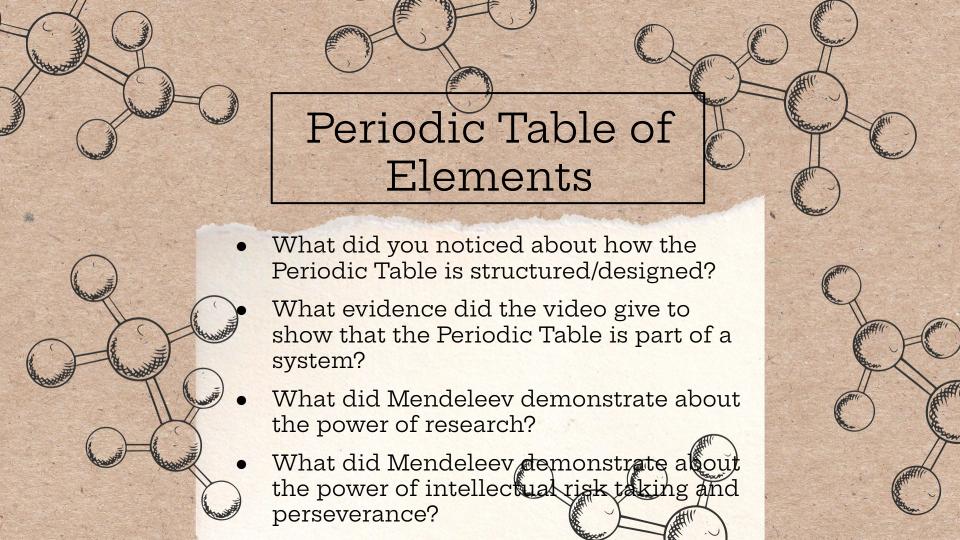
# Periodic Table of Elements

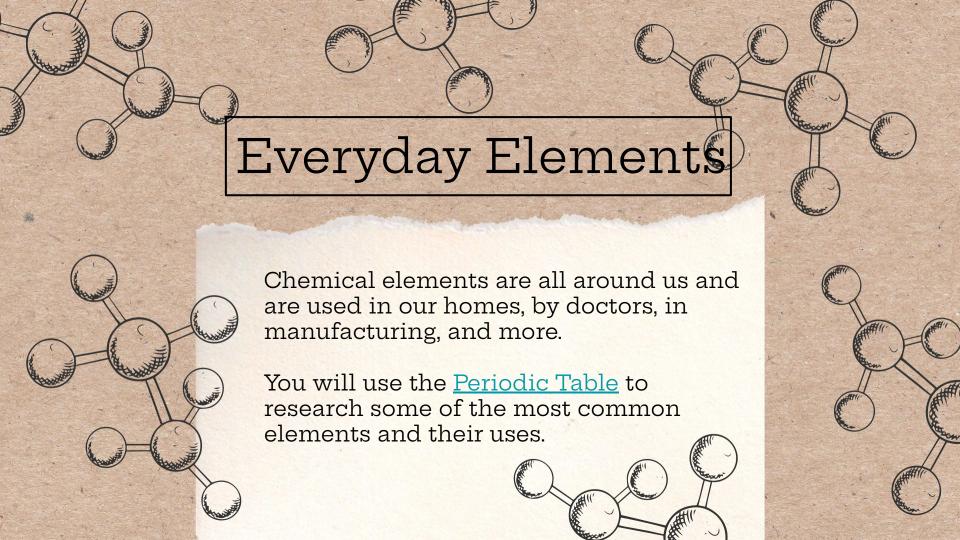


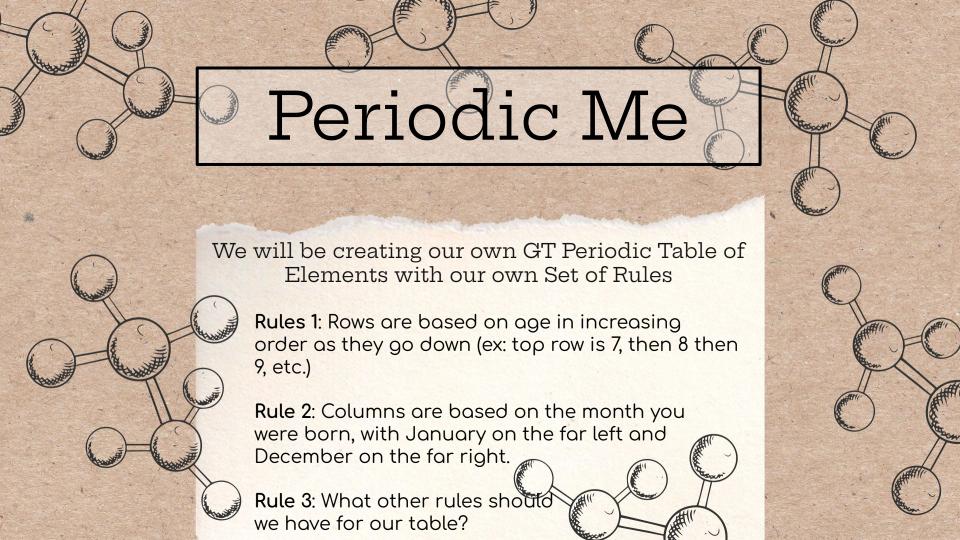


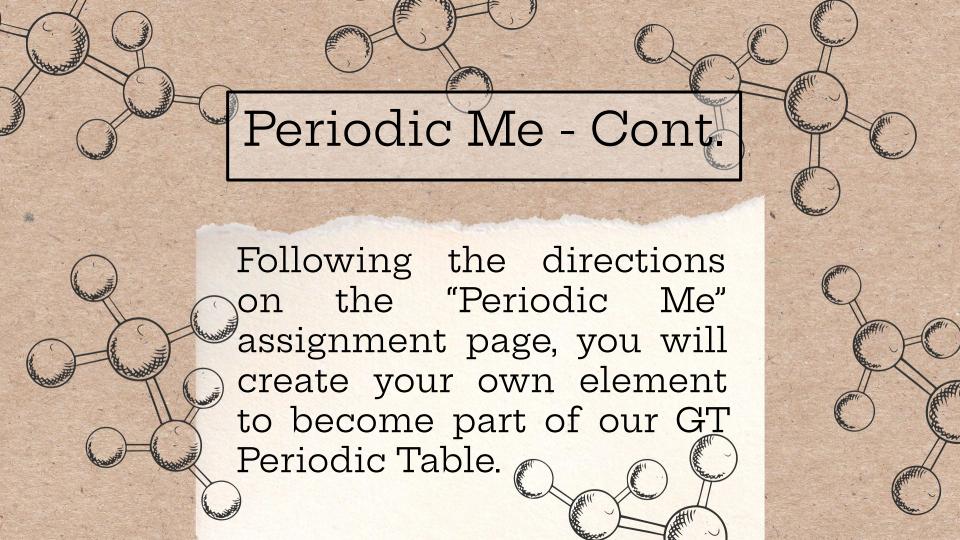








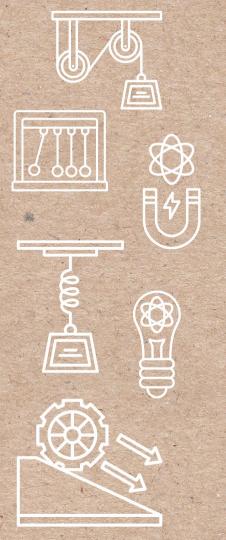






# LET'S REFLECT

- What rules did your element follow to be placed in its spot in the GT Periodic Table?
- How might the rules be changed to arrange the elements differently in the GT Periodic Table?
- How does its following a set of rules make it easier to use the Periodic Table (and GT Periodic Table)?
- Defend the statement that Systems Follow Rules.

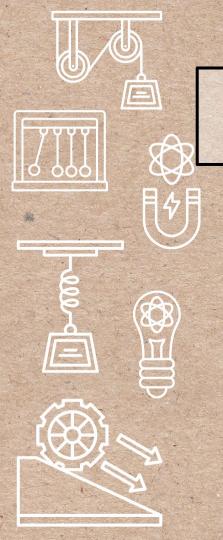


### Extensions

Periodic table pixel art

Elements Scavenger Hunt

Tons of great periodic table activities/lessons



### Songs for Fun

Periodic Table Song

Science Wars - Acapella Parody