* **Joey and Antonetta:** *Chemical reactions MS-PS1-2:*
  + Have examples of chemical reactions
    - What molecules are present before and after the reaction
      * Define what a pure substance is
      * Define what a molecule is
      * Define how molecules form
      * What is the difference between a molecule and a pure substance?
    - What type of reaction occurs?
    - What physical and chemical properties do those substances have before and after the chemical reaction
      * Define “properties” of substances.
        + Define the physical properties
        + Define chemical properties
  + How are atoms formed within a gas, solid, and liquid? What properties do these different types of substances have?
  + Explain how heat and temperature affect the change of forms
* **Ty:** *Chemical Reactions MS-PS1-5*
  + Define the law of conservation
    - Explain how in a chemical reaction the total number of atoms is the same before and after a chemical reaction
      * Explain how the mass is the same before and after a chemical reaction
  + Make an example of a chemical reaction
    - What molecules are present before and after the reaction
      * + Define what a pure substance is
        + Define what a molecule is
        + Define how molecules form
        + What is the difference between a molecule and a pure substance?
    - What physical and chemical properties do substances have before and after the chemical reaction
      * Define “properties” of substances.
        + Define the physical properties
        + Define chemical properties
* **Ryan:** *Energy MS-PS3-2*
  + Define energy
  + Define forces
  + Define potential energy
    - Explain how forces are related to energy
  + Explain how the relative distance of two objects within a system changes the amount of potential energy it has
    - Define what a system is
    - Types of systems you can analyze:
      * The Earth and a rollercoaster at different heights of the trac, or the height of a book on a shelf (in other words, how high something is from the ground and the amount of potential energy earth’s gravity creates; the system is earth’s **gravitational field**)
        + Define a gravitational field
      * Changing the direction of a magnetic (the system Is a **magnetic field**)
        + Define a magnetic field
      * Bringing a balloon with an electric charge closer of further from a classmates hair (the system is an **electric field**)
        + Define an electric field
    - Explain how When two objects interact, each one exerts a force on the other that can cause energy to be transferred to or from the object
    - Make a graph explaining how much potential energy there is as an object gets closer/further away from another
* **Spencer/Ulysses/Jesus**: *waves (MS-PS4-1/2/3)*
  + Use this website: https://www.education.com/science-fair/article/design-musical-instrument-play-pitches/
  + What are the characteristic properties of waves?
  + Explain how a wave has a repeating pattern
  + Define wavelength, frequency (pitch), amplitude (volume), and resonance.
    - What happens to a sound-wave when these things are changed?
    - Explain how the change in frequency changes what note on the keyboard we hear.
    - Use graphs
  + What is a medium through which a sound-wave can be transmitted?
* **Gabby:** *Forces and Interactions: MS-PS2-3*
  + Define energy
  + Define forces
  + Define electric fields/forces
  + Define magnetic forces/fields
  + What different types of devices create electric and magnetic forces and how do these devices increase their electric and magnetic force
    - Explain what causes their force to be attractive or repulsive
    - Explain how the size of their force depends on the magnitude of the charges, currents, or magnetic strength, or the distance between interacting objects.
  + Explain how and why Gravitation is always attractive
    - Explain how any two objects have gravitational force, but that depending on the mass it is too small to have any effect
* **Jamie/Matt**: *Growth and development…MS-LS1-5* 
  + What are environmental factors? (define and give examples: examples are given in standards)
    - Explain how different environmental factors affect the growth of an organism.
  + What are genetic factors? (define and give examples: examples are given in standards)
  + Give examples of evidence that shows how these factors affect the growth of organisms (examples are given in the standards)
    - Explain how genes are passed onto the offspring of an organism through reproduction
    - Explain how genetic factors affect the growth of an organism.
  + Give cause and effect examples of how different conditions affect different types of organisms (for example: if a population is shrinking (the effect), possible causes could be a food shortage, over hunting, a natural disaster…etc).
* **Emily:** *Human Impacts MS-ESS3-4*
  + Look up a database on human population and the rates of consumption of natural resources (freshwater, mineral, energy) and food.
    - The effects these consumptions could have is a change in appearance, composition, and structure of earth’s system as well as the rate at which they change.
    - What consequences are there with the increase of population and the rate at which the effects of increased population have on the earth.
  + Does increased population and increased consumption have positive or negative effects on the earth?
    - What are ways humans have tried to negate these negative impacts through technology?
  + Give examples of negative effects humans have had on the biosphere and different natural habitats.
* **Adam:** ?