1. What do the following represent?  
   $H_2O$ – hydrogen, oxyden;  $NaCl$ – socium, chloride;  $CO_2$ = carbon, oxygen

2. What is the difference between Co and CO?  
   Co is cobalt and 1 element;  CO is 2 elements – Carbon and oxygen

3. Elements make up substances.

4. Why did Mendeleyev reorganize the periodic table?  
   He wanted to put all of the elements with similar characteristics in the same column.

5. What is a chemical Reaction?  
   An interactions in which starting substances change into new different substances.

6. How can you tell if a chemical reaction occurs?  
   Bubbles, changes color, temperature change, new gas (smell) forms, new liquid forms, new solid forms

7. How do gaps in the periodic table help us find new elements?  
   The gaps predict the characteristics of the undiscovered elements.

8. How can you identify or label a substance?  
   Chemical formula, chemical name and common name