**Abbreviated Structural Formulas and Line-Bond Drawing [Flipped]**

While watching the Abbreviated Structural Formulas and Line-Bond Drawing presentation, answer the following questions. You are welcome to work in groups and the assignment will be graded. If you need help, \_\_\_\_\_\_\_\_\_\_\_\_\_\_   
ChemWiki is a good source for many chemistry topics.

1. Draw the structural formulas for the ten simplest alkanes (CH4 to C10H22). Remember to show all atoms!
2. Convert each structural formula for the ten simplest alkanes (CH4 to C10H22) into an abbreviated structural formula.
3. Create line-bond drawings for the ten simplest alkanes (CH4 to C10H22). Feel free to add dots at line segment intersections to represent carbon atoms and ‘ticks’ to keep track of hydrogen atoms. (Some like to use a different color for hydrogen ‘ticks’.)
4. What is the advantage of abbreviated structural formula when compared to:
   1. Molecular formula
   2. Structural formula
5. What is the advantage of the line bond drawing when compared to the structural formula?