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| 1. **I can design an experiment that utilizes previously learned concepts and techniques to solve a real-world chemistry problem presented.** 2. **I can evaluate data collected in a designed experiment to solve the real-world problem presented.** 3. **I can effectively communicate in writing, the results of the experiment using scientific writing criteria.** 4. **I can draw a conclusion from a data set as it relates to a hypothesis.** 5. **I can create serial dilutions and calculate concentrations in molarity and create a graph to display the relationship between absorbance and concentration (Beer’s Law).** 6. **I can interpret a graph of absorbance and known concentrations to determine the concentration of tartrazine in an unknown (sports drink).** 7. **I can evaluate the validity of the graphed data using the R2 value of a trendline.** |

Figure 5. Learning targets.