1. Give one example each of a physical transformation and a chemical transformation you’ve seen recently at home.

2. How many significant figures are there in the number 0.0003500230100?

3. Write $6.24 \times 10^{-2}$ in standard notation.

4. Calculate the volume of an object with a density of 2.25 g/mL and a mass of 3.8 g. Report your answer with the correct number of significant figures and an appropriate unit.

5. Use unit analysis and your sheet of common chemistry conversions to convert 493 mL to quarts, and report your answer with the correct number of significant figures.