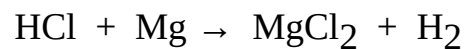


- (1) Balance the following reaction by including the proper coefficients? (3 points)



- (2) An unknown acid has a molar mass of 60.05 g/mol. Given the following percent composition, what is the molecular formula? (4 Points)

Element	Percent Natural Abundance
Carbon	40.0%
Hydrogen	6.70%
Oxygen	53.3%

(3) What is the mass percent of oxygen in sodium oxide (Na_2O)? (2 Points)

Given that sodium chloride is 39.0% sodium by mass, how many grams of sodium chloride are needed to have 750. mg of Na present? (2 Points)

Calculate the molar mass of calcium nitrate [$\text{Ca}(\text{NO}_3)_2$]. (2 points)