

Introduction to Quantitative Chemistry

CH11-9

4 inquiry questions • 8 dot points

1 What happens in chemical reactions?

- conduct practical investigations to observe and measure the quantitative relationships of chemical reactions, including but not limited to:...
- relate stoichiometry to the law of conservation of mass in chemical reactions by investigating:...

2 How are measurements made in chemistry?

- conduct a practical investigation to demonstrate and calculate the molar mass (mass of one mole) of:...
- conduct an investigation to determine that chemicals react in simple whole number ratios by moles
- explore the concept of the mole and relate this to Avogadro's constant to describe, calculate and manipulate masses, chemical amounts and numbers of particles in:...

3 How are chemicals in solutions measured?

- conduct practical investigations to determine the concentrations of solutions and investigate the different ways in which concentrations are measured
- conduct an investigation to make a standard solution and perform a dilution

4 How does the Ideal Gas Law relate to all other Gas Laws?

- conduct investigations and solve problems to determine the relationship between the Ideal Gas Law and:...