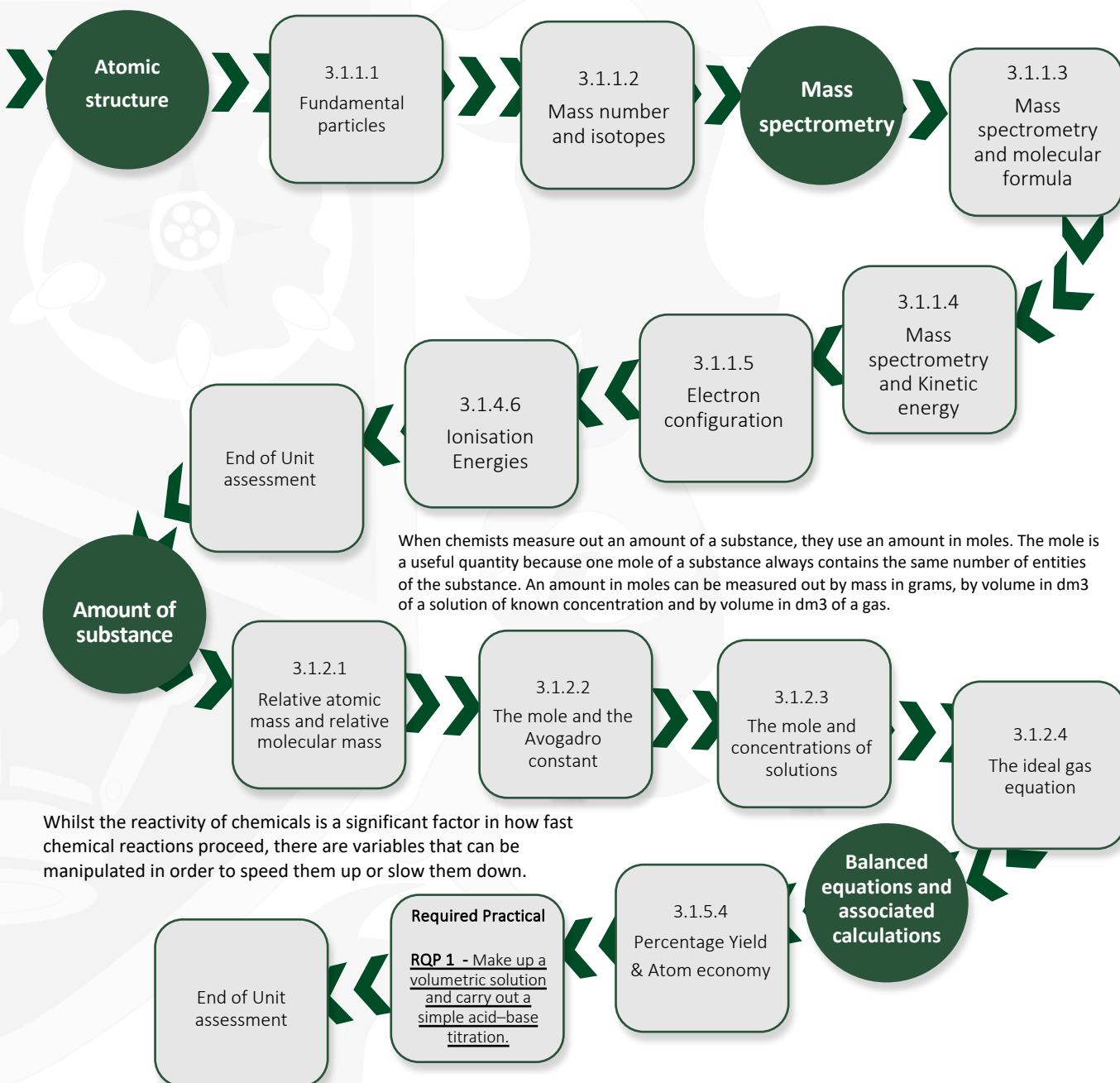


Chemistry

Year 12 Autumn Term

Atomic Structure & Amount of Substance

The chemical properties of elements depend on their atomic structure and in particular on the arrangement of electrons around the nucleus. The arrangement of electrons in orbitals is linked to the way in which elements are organised in the Periodic Table. Chemists can measure the mass of atoms and molecules to a high degree of accuracy in a mass spectrometer.



Whilst the reactivity of chemicals is a significant factor in how fast chemical reactions proceed, there are variables that can be manipulated in order to speed them up or slow them down.

TUDOR HABITS

You will work on your grit and determination as you attempt increasingly complex calculations and concepts, utilising all your problem solving skills.

VOCABULARY:

Orbitals, Ionisation energy, shielding, mass to charge ratio, Avogadro, mole, titration, standard solution