

Chemistry > Big idea CPS: Particles and structure > Topic CPS6: Periodic Table

Key concept (age 11-14)

CPS6.1: Atomic model

Learning focus	The structure of an atom may be represented by an atomic model.				
As students' conceptual understanding progresses they can:	Recognise that atoms are not visible under any type of microscope and that scientists have never 'seen' the structure of an atom.	Distinguish the nucleus of an atom from the nucleus of a cell.	Identify the force of attraction between electrons and the nucleus as being due to electric charge.	Recognise that a typical diagram of atomic structure is not drawn to scale.	Compare the particle and atomic models.
Diagnostic questions	Seeing atoms	Nucleus	Attractive forces	Relative size	Comparing models
Response activities	Size sequence	Type of nucleus	Forces of attraction	Sports field	Model explanations

Key:

Prior understanding from earlier stages of learning

B Bridge to later stages of learning



