

Lesson plan

Mike Bell: Year 8 Science

The class: set 3 year 8.

A previous topic covered the use of particle diagrams to show the arrangements in solids, liquids and gases.

This new topic covers atoms, elements, compounds, molecules and crystals.

Atoms and elements intro

- 1 12.10 Starter: IWB task “What’s wrong with these diagrams. Pupils discuss and correct. **Linking to prior Knowledge** (revision of the last topic).
- 2 12.15 Brief intro to the topic. Pupils copy “**Advance organiser**” on 2 page spread (leaving space for detail around the outside). This is also a “**Graphical Organiser**”
- 3 **12.25 Relevant recall questions/** linking to current knowledge. “Which of these elements have you heard of? Tell me something about where you heard of it?” Pupils discuss for 30 secs then I ask individuals.
- 4 12.30 Pupils copy definitions of “Element, compound, mixture and atom”, with **Graphics** added to text. (reference to practical task heating metal and wood done last lesson)
- 5 12.40 Wood and iron. Discussion of last lesson practical
- 6 12.45 Pairs exercise. (**Cooperative learning**) Pupils work on 9 diagrams. 1st questions links back to “particle theory” model of solid/liquid and gas. Second, to decide whether they represent elements or compounds or mixtures. Pupils have to “**peer explain**” what they have decided.
- 7 **12.55 “No hands up” questioning.** As whole class I go through the slides and ask individuals for their answer to a specific question and explain their answer.
- 8 1.03 collect books etc.