

# Remote Curriculum

## Year 9 Science

### How it Works:

- Find the correct week commencing row.
- Find today's day.
- Chose a 'Task' listed for that day – hold ctrl and click the chosen link.
  - If you don't recognise the work, it appears too difficult or the link does not load;
    - Try another task – look at the previous/next lesson or look at other days to find something familiar – You won't run out of work.
- Some lessons have links to PowerPoints and other resources beneath the video and/or Starter Quiz (LSQ)
- Complete any starter quizzes
  - Write your answer down
  - Mark your answers and write down any corrections
- Watch the videos and take notes.
- Pause if/when instructed to do so to answer questions or respond.
- Complete and go onto the next task or 'Extension Task'



Ivybridge  
COMMUNITY COLLEGE

| Week Commencing | Week | Day       | Title                               | Task<br>Hold ctrl and click                                                                                              | Extension Tasks<br>Hold ctrl and click                                                                            |
|-----------------|------|-----------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 3/9/25          | -    | Monday    | Cell Structure and Transport        | <a href="#">Cells</a>                                                                                                    | <a href="#">Animal cells: common structures and specialised cells</a>                                             |
|                 |      | Tuesday   |                                     | <a href="#">Light microscopy: observing and drawing cells</a>                                                            | <a href="#">Plant cells: common structures and specialised cells</a>                                              |
|                 |      | Wednesday | Atomic Structure and Periodic Table | <a href="#">Atomic structure (very small electron mass)</a><br><a href="#">Developing a model for atoms</a>              | <a href="#">Atoms, elements and compounds</a><br><a href="#">Modern periodic table and electron configuration</a> |
|                 |      | Thursday  | Energy                              | <a href="#">Energy stores and transfers</a>                                                                              | <a href="#">Conservation of Energy and Efficiency</a>                                                             |
|                 |      | Friday    |                                     | <a href="#">Conduction</a>                                                                                               | <a href="#">Convection</a>                                                                                        |
| 8/9/25          | A    | Monday    | Cell Structure and Transport        | <a href="#">Eukaryotic and prokaryotic organisms</a>                                                                     | <a href="#">Common structures of prokaryotic cells</a>                                                            |
|                 |      | Tuesday   |                                     | <a href="#">Common structures of prokaryotic cells</a>                                                                   | <a href="#">The size and scale of cells: including standard form</a>                                              |
|                 |      | Wednesday | Atomic Structure and Periodic Table | <a href="#">Atomic number and mass number</a><br><a href="#">Relative formula mass</a>                                   | <a href="#">Isotopes and relative atomic mass</a><br><a href="#">Development of the periodic table</a>            |
|                 |      | Thursday  | Energy                              | <a href="#">Radiation</a>                                                                                                | <a href="#">Insulation</a>                                                                                        |
|                 |      | Friday    |                                     | <a href="#">Work done (<math>W = F \times s</math>)</a>                                                                  | <a href="#">Energy in the home</a>                                                                                |
| 15/9/25         | B    | Monday    | Cell Structure and Transport        | <a href="#">Growth in multicellular organisms</a>                                                                        | <a href="#">The cell cycle and cell division: mitosis</a>                                                         |
|                 |      | Tuesday   |                                     | <a href="#">The structure of DNA: including nucleotides</a>                                                              | <a href="#">Errors in cell division and cancer: beyond the basics</a>                                             |
|                 |      | Wednesday | Atomic Structure and Periodic Table | <a href="#">Groups of elements in the periodic table</a><br><a href="#">Separating mixtures (including formulations)</a> | <a href="#">Group 1 and 2 metals</a><br><a href="#">Group 7 (halogens)</a>                                        |
|                 |      | Thursday  | Energy                              | <a href="#">Power (<math>P = W/t</math>)</a>                                                                             | <a href="#">The energy of an object in a gravitational field (<math>EP=mgh</math>)</a>                            |
|                 |      | Friday    |                                     | <a href="#">Calculating energy changes (<math>E_k</math> and <math>E_p</math>)</a>                                       | <a href="#">Stretching a spring</a>                                                                               |

|          |   |           |                                     |                                                                   |                                                                              |
|----------|---|-----------|-------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------|
| 22/9/25  | A | Monday    | Cell Structure and Transport        | <a href="#">Making gametes: meiosis</a>                           | <a href="#">Specialised cells, unspecialised cells and differentiation</a>   |
|          |   | Tuesday   |                                     | <a href="#">Diffusion: moving particles</a>                       | <a href="#">Stem cells in animals</a>                                        |
|          |   | Wednesday | Atomic Structure and Periodic Table | <a href="#">Solutions</a>                                         | <a href="#">Filtration</a>                                                   |
|          |   | Thursday  |                                     | <a href="#">Crystallisation</a>                                   | <a href="#">Chromatography: paper</a>                                        |
|          |   | Friday    | Energy                              | <a href="#">Stretching a spring analysis (F=ke)</a>               | <a href="#">Calculating the energy of a spring (Ee = 1/2 ke<sup>2</sup>)</a> |
| 29/9/25  | B | Monday    |                                     | <a href="#">Calculating density and measuring volume</a>          | <a href="#">Measuring density</a>                                            |
|          |   | Tuesday   | Cell Structure and Transport        | <a href="#">Diffusion through a permeable material: practical</a> | <a href="#">Meristem cells in plants</a>                                     |
|          |   | Wednesday |                                     | <a href="#">Diffusion through the cell membrane</a>               | <a href="#">Diffusion through a selectively-permeable membrane</a>           |
|          |   | Thursday  | Atomic Structure and Periodic Table | <a href="#">Interpreting chromatograms</a>                        | <a href="#">Chromatography: separating a mixture of inks</a>                 |
|          |   | Friday    |                                     | <a href="#">Distillation: simple distillation</a>                 | <a href="#">Distillation: fractional distillation</a>                        |
| 6/10/25  | A | Monday    | Cell Structure and Transport        | <a href="#">Pressure in a fluid</a>                               | <a href="#">Upthrust</a>                                                     |
|          |   | Tuesday   |                                     | <a href="#">Explaining convection</a>                             | <a href="#">Explaining pressure changes</a>                                  |
|          |   | Wednesday | Atomic Structure and Periodic Table | <a href="#">005 Microscopes</a>                                   | <a href="#">Microscopes</a>                                                  |
|          |   | Thursday  |                                     | <a href="#">003 Light Microscopes</a>                             | <a href="#">006 Microscopy Practical</a>                                     |
|          |   | Friday    | Energy                              | <a href="#">056 Elements and Compounds</a>                        | <a href="#">084 Atoms, Elements and Compounds</a>                            |
| 13/10/25 | B | Monday    |                                     | <a href="#">102 Writing Chemical Word Equations</a>               | <a href="#">099 Particle Theory</a>                                          |
|          |   | Tuesday   | Cell Structure and Transport        | <a href="#">Energy Stores and Transfers</a>                       | <a href="#">Conservation of Energy</a>                                       |
|          |   | Wednesday |                                     | <a href="#">161H Energy Stores</a>                                | <a href="#">012 Conservation of Energy</a>                                   |
|          |   | Thursday  | Atomic Structure and Periodic Table | <a href="#">005 Magnification</a>                                 | <a href="#">Magnification and Resolution</a>                                 |
|          |   | Friday    |                                     | <a href="#">001F Eukaryotic and Prokaryotic Cells</a>             | <a href="#">Prokaryotic and Eukaryotic Cells</a>                             |
| 20/10/25 | A | Monday    | Cell Structure and Transport        | <a href="#">101 Balancing Equations</a>                           | <a href="#">215 Balancing Chemical Equations</a>                             |
|          |   | Tuesday   |                                     | <a href="#">080 Elements, Mixtures and Compounds</a>              | <a href="#">214 Chemical Formulae</a>                                        |
|          |   | Wednesday | Atomic Structure and Periodic Table | <a href="#">014 Comparing Amounts of Energy in Stores</a>         | <a href="#">Conservation of Energy</a>                                       |
|          |   | Thursday  |                                     | <a href="#">015 Energy from Food</a>                              |                                                                              |
|          |   | Friday    | Energy                              | <a href="#">002F Animal and Plant Cells</a>                       | <a href="#">Cell Structures</a>                                              |
| 3/11/25  | B | Monday    |                                     | <a href="#">001 Animal Cells (Eukaryotes)</a>                     | <a href="#">Cellular Structures</a>                                          |
|          |   | Tuesday   | Cell Structure and Transport        | <a href="#">083 Separating Mixtures: Distillation</a>             | <a href="#">084 Separating Mixtures: Fractional Distillation</a>             |
|          |   | Wednesday |                                     | <a href="#">085 Separating Mixtures: Chromatography</a>           | <a href="#">082 Separating Mixtures: Evaporation</a>                         |
|          |   | Thursday  | Atomic Structure and Periodic Table | <a href="#">011 Energy Transfers</a>                              | <a href="#">Radiation</a>                                                    |
|          |   | Friday    |                                     | <a href="#">013 Describing Energy Transfers</a>                   | <a href="#">Insulation</a>                                                   |
| 10/11/25 | A | Monday    | Cell Structure and Transport        | <a href="#">002 Plant Cells (Prokaryotes)</a>                     | <a href="#">Specialised Animal Cells</a>                                     |
|          |   | Tuesday   |                                     | <a href="#">006 Specialised Animal Cells 1</a>                    |                                                                              |
|          |   | Wednesday | Atomic Structure and Periodic Table | <a href="#">039 The Structure of the Atom</a>                     | <a href="#">086 Atomic Model</a>                                             |
|          |   | Thursday  |                                     | <a href="#">041 The Model of the Atom</a>                         | <a href="#">088 Sub-Atomic Particles and Isotopes</a>                        |
|          |   | Friday    | Energy                              | <a href="#">016 Rate of Energy Transfer</a>                       | <a href="#">Conduction</a>                                                   |
| 17/11/25 | B | Monday    |                                     | <a href="#">169H Energy Transfer and Wasted Energy</a>            |                                                                              |
|          |   | Tuesday   | Cell Structure and Transport        | <a href="#">007 Specialised Animal Cells 2</a>                    | <a href="#">Specialised Cells</a>                                            |
|          |   | Wednesday |                                     | <a href="#">008 Specialised Plant Cells</a>                       |                                                                              |
|          |   | Thursday  | Atomic Structure and Periodic Table | <a href="#">126 Electron Shells</a>                               | <a href="#">095 Covalent Bonding</a>                                         |
|          |   | Friday    |                                     | <a href="#">127 Electron Configuration</a>                        | <a href="#">093 Ionic Bonding</a>                                            |
| 17/11/25 | B | Monday    | Energy                              | <a href="#">010 Systems, Energy and Work</a>                      | <a href="#">Convection</a>                                                   |
|          |   | Tuesday   |                                     | <a href="#">Power and Energy</a>                                  |                                                                              |
| 17/11/25 | B | Monday    |                                     | <a href="#">009 Stem Cells</a>                                    | <a href="#">183 Using Genetics: Inheritance</a>                              |

|          |   |                    |                                     |                                                                                          |                                                                                   |
|----------|---|--------------------|-------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|          |   | Tuesday            | Cell Structure and Transport        | <a href="#">185 Using Genetics: Cloning</a>                                              |                                                                                   |
|          |   | Wednesday          | Atomic Structure and Periodic Table | <a href="#">058 The Periodic Table</a>                                                   | <a href="#">089 History of the Periodic Table</a>                                 |
|          |   |                    |                                     | <a href="#">189 The Periodic Table and the Atom</a>                                      | <a href="#">060 Developing the Periodic Table 1</a>                               |
|          |   | Thursday<br>Friday | Energy                              | <a href="#">165H Work</a><br><a href="#">197H Work Done</a>                              | <a href="#">Gears, Levers and Pulleys</a>                                         |
| 24/11/25 | A | Monday             | Cell Structure and Transport        | <a href="#">008 Diffusion</a>                                                            | <a href="#">How is Oxygen Transported Round the Body?</a>                         |
|          |   | Tuesday            | Cell Structure and Transport        | <a href="#">009 Exchanging Materials</a>                                                 |                                                                                   |
|          |   | Wednesday          | Atomic Structure and Periodic Table | <a href="#">059 Metals and Non-Metals</a>                                                | <a href="#">121 Extraction of Aluminium</a>                                       |
|          |   |                    |                                     | <a href="#">167 Metals</a>                                                               |                                                                                   |
|          |   | Thursday<br>Friday | Energy                              | <a href="#">166H Power</a><br><a href="#">093 Gravity</a>                                | <a href="#">195 Gravity and Weight</a><br><a href="#">107 Newton`s Laws</a>       |
| 1/12/25  | B | Monday             | Cell Structure and Transport        | <a href="#">112 Breathing and Gas Exchange</a>                                           | <a href="#">Diffusion and Gas Exchange</a>                                        |
|          |   | Tuesday            | Cell Structure and Transport        | <a href="#">010 Osmosis 1</a>                                                            |                                                                                   |
|          |   | Wednesday          | Atomic Structure and Periodic Table | <a href="#">108 Reactions of Metals with Oxygen</a>                                      | <a href="#">096 Simple Molecules</a>                                              |
|          |   |                    |                                     | <a href="#">109 Reactivity of Metals</a>                                                 | <a href="#">110 Extracting Metals from Ores</a>                                   |
|          |   | Thursday<br>Friday | Energy                              | <a href="#">164 Gravitational Potential Energy</a><br><a href="#">162 Kinetic Energy</a> | <a href="#">045 Newton`s First Law</a><br><a href="#">046 Newton`s Second Law</a> |
| 8/12/25  | A | Monday             | Cell Structure and Transport        | <a href="#">011 Osmosis 2</a>                                                            | <a href="#">How do Humans Digest Food?</a>                                        |
|          |   | Tuesday            | Cell Structure and Transport        | <a href="#">012 Active Transport</a>                                                     |                                                                                   |
|          |   | Wednesday          | Atomic Structure and Periodic Table | <a href="#">090 Group 1</a>                                                              | <a href="#">168 Comparing Reactivity 1</a>                                        |
|          |   |                    |                                     | <a href="#">091 Group 7</a>                                                              | <a href="#">169 Comparing Reactivity 2</a>                                        |
|          |   | Thursday<br>Friday | Energy                              | <a href="#">163 Elastic Energy</a><br><a href="#">200 Elastic Potential Energy</a>       | <a href="#">044 Newton`s Third Law</a><br><a href="#">119 Hooke`s Law</a>         |
| 15/12/25 | B | Monday             | Cell Structure and Transport        | <a href="#">007 Mitosis and the Cell Cycle</a>                                           | <a href="#">184 Using Genetics: Selective Breeding</a>                            |
|          |   | Tuesday            | Cell Structure and Transport        | <a href="#">059 Mitosis and Meiosis</a>                                                  |                                                                                   |
|          |   | Wednesday          | Atomic Structure and Periodic Table | <a href="#">092 Transition Elements</a>                                                  | <a href="#">170 Displacement Reactions 1</a>                                      |
|          |   |                    |                                     |                                                                                          | <a href="#">171 Displacement Reactions 2</a>                                      |
|          |   | Thursday<br>Friday | Energy                              | <a href="#">Burning Fuel for Energy</a><br><a href="#">Energy in the Home</a>            | <a href="#">202 Hooke`s Law 1</a><br><a href="#">203 Hooke`s Law 2</a>            |