

# Remote Curriculum

## Year 9 Science



Ivybridge

COMMUNITY COLLEGE

### How it Works:

1. Find the correct week commencing row.
2. Find today's day.
3. Chose a 'Task' listed for that day – hold ctrl and click the chosen link.
  - a. If you don't recognise the work, it appears too difficult or the link does not load;
    - i. 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.
4. Some lessons have links to PowerPoints and other resources beneath the video and/or Starter Quiz (LSQ)
5. Complete any starter quizzes
  - a. Write your answer down
  - b. Mark your answers and write down any corrections
6. Watch the videos and take notes.
7. Pause if/when instructed to do so to answer questions or respond.
8. Complete and go onto the next task or 'Extension Task'

Week Commencing	Week	Day	Title	Task Hold ctrl and click	Extension Tasks Hold ctrl and click
2/9/24	A	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> <a href="#">Developing a model for atoms</a>	<a href="#">Atoms, elements and compounds</a> <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>
9/9/24	B	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> <a href="#">Relative formula mass</a>	<a href="#">Isotopes and relative atomic mass</a> <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>
16/9/24	A	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> <a href="#">Separating mixtures (including formulations)</a>	<a href="#">Group 1 and 2 metals</a> <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>

23/9/24	B	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>
	<a href="#">Calculating density and measuring volume</a>	<a href="#">Measuring density</a>			
30/9/24	A	Monday	Cell Structure and Transport	<a href="#">Diffusion through a permeable material: practical</a>	<a href="#">Meristem cells in plants</a>
		Tuesday		<a href="#">Diffusion through the cell membrane</a>	<a href="#">Diffusion through a selectively-permeable membrane</a>
		Wednesday	Atomic Structure and Periodic Table	<a href="#">Interpreting chromatograms</a>	<a href="#">Chromatography: separating a mixture of inks</a>
		Thursday		<a href="#">Distillation: simple distillation</a>	<a href="#">Distillation: fractional distillation</a>
		Friday	Energy	<a href="#">Pressure in a fluid</a>	<a href="#">Upthrust</a>
	<a href="#">Explaining convection</a>	<a href="#">Explaining pressure changes</a>			
7/10/24	B	Monday	Cell Structure and Transport	<a href="#">005 Microscopes</a>	<a href="#">Microscopes</a>
		Tuesday		<a href="#">003 Light Microscopes</a>	<a href="#">006 Microscopy Practical</a>
		Wednesday	Atomic Structure and Periodic Table	<a href="#">056 Elements and Compounds</a>	<a href="#">084 Atoms, Elements and Compounds</a>
		Thursday		<a href="#">102 Writing Chemical Word Equations</a>	<a href="#">099 Particle Theory</a>
		Friday	Energy	<a href="#">Energy Stores and Transfers</a>	<a href="#">Conservation of Energy</a>
	<a href="#">161H Energy Stores</a>	<a href="#">012 Conservation of Energy</a>			
14/10/24	A	Monday	Cell Structure and Transport	<a href="#">005 Magnification</a>	<a href="#">Magnification and Resolution</a>
		Tuesday		<a href="#">001F Eukaryotic and Prokaryotic Cells</a>	<a href="#">Prokaryotic and Eukaryotic Cells</a>
		Wednesday	Atomic Structure and Periodic Table	<a href="#">101 Balancing Equations</a>	<a href="#">215 Balancing Chemical Equations</a>
		Thursday		<a href="#">080 Elements, Mixtures and Compounds</a>	<a href="#">214 Chemical Formulae</a>
		Friday	Energy	<a href="#">014 Comparing Amounts of Energy in Stores</a>	<a href="#">Conservation of Energy</a>
	<a href="#">015 Energy from Food</a>				
21/10/24	B	Monday	Cell Structure and Transport	<a href="#">002F Animal and Plant Cells</a>	<a href="#">Cell Structures</a>
		Tuesday		<a href="#">001 Animal Cells (Eukaryotes)</a>	<a href="#">Cellular Structures</a>
		Wednesday	Atomic Structure and Periodic Table	<a href="#">083 Separating Mixtures: Distillation</a>	<a href="#">084 Separating Mixtures: Fractional Distillation</a>
		Thursday		<a href="#">085 Separating Mixtures: Chromatography</a>	<a href="#">082 Separating Mixtures: Evaporation</a>
		Friday	Energy	<a href="#">011 Energy Transfers</a>	<a href="#">Radiation</a>
	<a href="#">013 Describing Energy Transfers</a>	<a href="#">Insulation</a>			
4/11/24	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>
	<a href="#">169H Energy Transfer and Wasted Energy</a>				
11/11/24	B	Monday	Cell Structure and Transport	<a href="#">007 Specialised Animal Cells 2</a>	<a href="#">Specialised Cells</a>
		Tuesday		<a href="#">008 Specialised Plant Cells</a>	
		Wednesday	Atomic Structure and Periodic Table	<a href="#">126 Electron Shells</a>	<a href="#">095 Covalent Bonding</a>
		Thursday		<a href="#">127 Electron Configuration</a>	<a href="#">093 Ionic Bonding</a>
		Friday	Energy	<a href="#">010 Systems, Energy and Work</a>	<a href="#">Convection</a>
	<a href="#">Power and Energy</a>				
18/11/24	A	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="#">189 The Periodic Table and the Atom</a>	<a href="#">089 History of the Periodic Table</a> <a href="#">060 Developing the Periodic Table 1</a>
		Thursday	Energy	<a href="#">165H Work</a>	<a href="#">Gears, Levers and Pulleys</a>
		Friday		<a href="#">197H Work Done</a>	
25/11/24	B	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="#">167 Metals</a>	<a href="#">121 Extraction of Aluminium</a>
		Thursday	Energy	<a href="#">166H Power</a>	<a href="#">195 Gravity and Weight</a>
		Friday		<a href="#">093 Gravity</a>	<a href="#">107 Newton`s Laws</a>
2/12/24	A	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="#">109 Reactivity of Metals</a>	<a href="#">096 Simple Molecules</a> <a href="#">110 Extracting Metals from Ores</a>
		Thursday	Energy	<a href="#">164 Gravitational Potential Energy</a>	<a href="#">045 Newton`s First Law</a>
		Friday		<a href="#">162 Kinetic Energy</a>	<a href="#">046 Newton`s Second Law</a>
9/12/24	B	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="#">091 Group 7</a>	<a href="#">168 Comparing Reactivity 1</a> <a href="#">169 Comparing Reactivity 2</a>
		Thursday	Energy	<a href="#">163 Elastic Energy</a>	<a href="#">044 Newton`s Third Law</a>
		Friday		<a href="#">200 Elastic Potential Energy</a>	<a href="#">119 Hooke`s Law</a>
16/12/24	A	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	Energy	<a href="#">Burning Fuel for Energy</a>	<a href="#">202 Hooke`s Law 1</a>
		Friday		<a href="#">Energy in the Home</a>	<a href="#">203 Hooke`s Law 2</a>