

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 Hold ctrl and click	Extension Tasks Hold ctrl and click
7/9/26	A	Monday	Cell Structure and Transport	Cells	Animal cells: common structures and specialised cells
		Tuesday		Light microscopy: observing and drawing cells	Plant cells: common structures and specialised cells
		Wednesday	Atomic Structure and Periodic Table	Atomic structure (very small electron mass)	Atoms, elements and compounds
		Thursday		Developing a model for atoms	Modern periodic table and electron configuration
		Friday	Energy	Measuring temperature	Changing temperature
14/9/26	B	Monday		Mixing substances of different temperatures	Cooling
		Tuesday	Cell Structure and Transport	Eukaryotic and prokaryotic organisms	Common structures of prokaryotic cells
		Wednesday		Common structures of prokaryotic cells	The size and scale of cells: including standard form
		Thursday	Atomic Structure and Periodic Table	Atomic number and mass number	Isotopes and relative atomic mass
		Friday		Relative formula mass	Development of the periodic table
21/9/26	A	Monday	Cell Structure and Transport	Thermal conductors	Thermal insulators
		Tuesday		Work done ($W = F \times s$)	Energy and temperature
		Wednesday	Atomic Structure and Periodic Table	Growth in multicellular organisms	The cell cycle and cell division: mitosis
		Thursday		The structure of DNA: including nucleotides	Errors in cell division and cancer: beyond the basics
		Friday	Energy	Groups of elements in the periodic table	Group 1 and 2 metals
		Monday		Separating mixtures (including formulations)	Group 7 (halogens)
		Tuesday	Cell Structure and Transport	Power ($P = W/t$)	The energy of an object in a gravitational field ($EP=mgh$)
		Wednesday		Calculating energy changes (E_k and E_p)	Stretching a spring
		Thursday	Atomic Structure and Periodic Table		
		Friday			

28/9/26	B	Monday	Cell Structure and Transport	Making gametes: meiosis	Specialised cells, unspecialised cells and differentiation
		Tuesday		Diffusion: moving particles	Stem cells in animals
		Wednesday	Atomic Structure and Periodic Table	Solutions	Filtration
		Thursday		Crystallisation	Chromatography: paper
		Friday	Energy	Stretching a spring analysis (F=ke)	Calculating the energy of a spring (Ee = 1/2 ke²)
5/10/26	A	Monday		Calculating density and measuring volume	Measuring density
		Tuesday	Cell Structure and Transport	Diffusion through a permeable material: practical	Meristem cells in plants
		Wednesday		Diffusion through the cell membrane	Diffusion through a selectively-permeable membrane
		Thursday	Atomic Structure and Periodic Table	Interpreting chromatograms	Chromatography: separating a mixture of inks
		Friday		Distillation: simple distillation	Distillation: fractional distillation
12/10/26	B	Monday	Cell Structure and Transport	Pressure in a fluid	Upthrust
		Tuesday		Explaining convection	Explaining pressure changes
		Wednesday	Atomic Structure and Periodic Table	005 Microscopes	Using stem cells in medicine
		Thursday		003 Light Microscopes	006 Microscopy Practical
		Friday	Energy	056 Elements and Compounds	084 Atoms, Elements and Compounds
19/10/26	A	Monday		102 Writing Chemical Word Equations	099 Particle Theory
		Tuesday	Cell Structure and Transport	Energy and substance	Efficiency
		Wednesday		161H Energy Stores	012 Conservation of Energy
		Thursday	Atomic Structure and Periodic Table	005 Magnification	Common processes of all living organisms
		Friday		001F Eukaryotic and Prokaryotic Cells	Observing cells with a light microscope
2/11/26	B	Monday	Cell Structure and Transport	101 Balancing Equations	Waste water treatment
		Tuesday		Potable water	214 Chemical Formulae
		Wednesday	Atomic Structure and Periodic Table	014 Comparing Amounts of Energy in Stores	Calculating the energy of a moving object
		Thursday		002F Animal and Plant Cells	Animal cell structures and functions
		Friday	Energy	Preparing and observing a microscope slide	Plant cell structures and functions
9/11/26	A	Monday		083 Separating Mixtures: Distillation	084 Separating Mixtures: Fractional Distillation
		Tuesday	Atomic Structure and Periodic Table	Water sample analysis dissolved solids	082 Separating Mixtures: Evaporation
		Wednesday		011 Energy Transfers	015 Energy from Food
		Thursday	Energy	013 Describing Energy Transfers	203 Hooke's Law 2
		Friday		002 Plant Cells (Prokaryotes)	Multi and unicellular organisms
16/11/26	B	Monday	Cell Structure and Transport	006 Specialised Animal Cells 1	086 Atomic Model
		Tuesday		039 The Structure of the Atom	088 Sub-Atomic Particles and Isotopes
		Wednesday	Atomic Structure and Periodic Table	Water sample analysis distillation	Thermal conduction and insulation
		Thursday		016 Rate of Energy Transfer	
		Friday	Energy	169H Energy Transfer and Wasted Energy	
23/11/26	A	Monday		007 Specialised Animal Cells 2	Specialised cells and functions
		Tuesday	Cell Structure and Transport	008 Specialised Plant Cells	095 Covalent Bonding
		Wednesday		126 Electron Shells	093 Ionic Bonding
		Thursday	Atomic Structure and Periodic Table	Materials and composites	
		Friday		010 Systems, Energy and Work	Effective insulation
		Monday	Energy	Heating different substances	
		Tuesday		009 Stem Cells	183 Using Genetics: Inheritance
		Wednesday	Cell Structure and Transport		
		Thursday			
		Friday	Atomic Structure and Periodic Table		

		Tuesday	Cell Structure and Transport	185 Using Genetics: Cloning	
		Wednesday	Atomic Structure and Periodic Table	058 The Periodic Table	089 History of the Periodic Table
				189 The Periodic Table and the Atom	Structure of polymers
		Thursday	Energy	165H Work	Calculating specific heat capacity
		Friday		197H Work Done	
30/11/26	B	Monday	Cell Structure and Transport	008 Diffusion	The human circulatory system
		Tuesday		009 Exchanging Materials	
		Wednesday	Atomic Structure and Periodic Table	059 Metals and Non-Metals	121 Extraction of Aluminium
				Reactivity series for metals	
		Thursday	Energy	Measuring specific heat capacity	A heating curve for water
		Friday		093 Gravity	107 Newton`s Laws
7/12/26	A	Monday	Cell Structure and Transport	The human heart	Human blood cells and vessels
		Tuesday		010 Osmosis 1	
		Wednesday	Atomic Structure and Periodic Table	108 Reactions of Metals with Oxygen	096 Simple Molecules
				109 Reactivity of Metals	110 Extracting Metals from Ores
		Thursday	Energy	164 Gravitational Potential Energy	045 Newton`s First Law
		Friday		162 Kinetic Energy	046 Newton`s Second Law
14/12/26	B	Monday	Cell Structure and Transport	011 Osmosis 2	Microscopy of blood cells
		Tuesday		012 Active Transport	
		Wednesday	Atomic Structure and Periodic Table	090 Group 1	168 Comparing Reactivity 1
				091 Group 7	169 Comparing Reactivity 2
		Thursday	Energy	163 Elastic Energy	Specific latent heat
		Friday		200 Elastic Potential Energy	119 Hooke`s Law
		Monday	Cell Structure and Transport	007 Mitosis and the Cell Cycle	184 Using Genetics: Selective Breeding
		Tuesday		059 Mitosis and Meiosis	
		Wednesday	Atomic Structure and Periodic Table	Chemical reactions : displacement	170 Displacement Reactions 1
					171 Displacement Reactions 2