

## SCIENCE LAB SIMULATIONS

Grade	Subject	Units	Experiment	Links
1	Chemistry	Unit 2: Laboratory safety and apparatus.	Lab apparatuses	<a href="#">Click here to open the Lab apparatuses lab</a>
		Unit 3: States and changes of states of matter	States of matter	<a href="#">Click here to open the States of matter lab</a>
		Unit 3: States and changes of states of matter	States of matter basics	<a href="#">Click here to open the State of matter basics lab</a>
		Unit 4: Pure substances and mixtures.	Distillation of water	<a href="#">Click here to open the Distillation of water lab</a>
		Unit 4: Pure substances and mixtures.	Concentration	<a href="#">Click here to open the Concentration lab</a>
		Unit 4: Pure substances and mixtures.	States of matter	<a href="#">Click here to open the States of matter lab</a>
		Unit 5: Atoms, elements and compounds	Build an atom	<a href="#">Click here to open the Build an atom lab</a>
		Unit 5: Atoms, elements and compounds	Isotopes and atomic mass	<a href="#">Click here to open the Isotopes and atomic mass lab</a>
		Unit 6: arrangement of elements in the Periodic table	Build an atom	<a href="#">Click here to open the Build an atom lab</a>
		Unit 6: arrangement of elements in the Periodic table	Periodic table	<a href="#">Click here to open the Periodic table lab</a>
		Unit 10: Chemical equations	Balancing chemical equation	<a href="#">Click here to open the Balancing chemical equation lab</a>
		Unit 11: Acids and bases and pH.	Acid base solution	<a href="#">Click here to open the Acid base solution lab</a>
		Unit 11: Acids and bases and pH.	PH scale basics	<a href="#">Click here to open the PH scale basics lab</a>
	Unit 11: Chemical equations.	Reactants products and leftovers	<a href="#">Click here to open the Reactant products and leftovers lab</a>	
		Unit 1: Laboratory safety and measurement of physical quantities.	Lab apparatuses	<a href="#">Click here to open the Lab apparatuses lab</a>

<b>Physics</b>	Unit 2: Qualitative analysis of Linear motion	Linear motion	<a href="#">Click here to open the Qualitative analysis of linear motion lab</a>
	Unit 8: Kinetic theory and states of matter	States of matter	<a href="#">Click here to open the Rutherford lab</a>
	Unit 9: Heat and temperature	States of matter	<a href="#">Click here to open the States of matter lab</a>
	Unit 11: Current electricity	Ohm's law	<a href="#">Click here to open the Ohm's law lab</a>
	Unit 11: Current electricity	Circuit construction	<a href="#">Click here to open the Circuit construction kit lab</a>
	Unit 11: Electrostatics	Balloons and static electricity	<a href="#">Click here to open the electrostatics lab</a>
	<b>Biology</b>	Unit 4: Magnifying instruments and biological drawing	Simple Microscope
<b>Chemistry</b>	Unit 1: Chemical Bonding	Molecule polarity	<a href="#">Click here to open the Molecule polarity lab</a>
	Unit 1: Chemical bonding.	Molecules Structure	<a href="#">Click here to open the chemical bonding lab</a>
	Unit 2: Trends in properties of elements in the period	Molecule polarity	<a href="#">Click here to open the Molecule polarity lab</a>
	Unit 6: Preparation of salts and identification of ions.	Preparation of salts	<a href="#">Click here to open the Preparation of salts lab</a>
	Unit 7: The mole concept and gas laws	Concentration	<a href="#">Click here to open the Concentration lab</a>
	Unit 7: The mole concept and gas laws	Molarity	<a href="#">Click here to open the Molarity lab</a>
	Unit 9: Electrolytes and non- electrolytes.	Electrolysis	<a href="#">Click here to open the Electrolysis lab</a>
<b>Physics</b>	Unit 2: qualitative analysis of linear motion	Pendulum lab	<a href="#">Click here to open the Pendulum lab</a>
	<b>Unit 4:</b> Newton's law of motion	Gravity force lab	<a href="#">Click here to open the Gravity Force lab</a>
	Unit 5: measuring liquid pressure with manometer	Under Pressure	<a href="#">Click here to open the Under pressure lab</a>
	Unit 7: Simple Machines(I)	Balancing act	<a href="#">Click here to open the Balancing act lab</a>

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		Unit 10: Gas laws' experiments	States of matter	<a href="#">Click here to open the States of matter lab</a>
		Unit 12: Arrangement of resistors in an electric circuit	Ohm's law	<a href="#">Click here to open the Ohm's law lab</a>
		Unit 12: Arrangement of resistors in an electric circuit	Circuit construction	<a href="#">Click here to open the Circuit construction kit lab</a>
<b>3</b>	<b>Chemistry</b>	Unit 7: Concentration of solutions.	Concentration	<a href="#">Click here to open the Concentration lab</a>
		Unit 7: Concentration of solutions.	Molarity	<a href="#">Click here to open the Molarity lab</a>
		Unit 7: Concentration of solutions.	PH scale basics	<a href="#">Click here to open the PH scale basics lab</a>
		Unit 8: Electrolysis and its applications	Electrolysis	<a href="#">Click here to open the Electrolysis lab</a>
	<b>Physics</b>	Unit 3: Application of atmospheric pressure	Under Pressure	<a href="#">Click here to open the Under pressure lab</a>
		Unit 5: Heat transfer and quantity	States of matter	<a href="#">Click here to open the States of matter lab</a>
		Unit 6: Laws of thermodynamics	States of matter	<a href="#">Click here to open the States of matter lab</a>
		Unit 9: electric fields intensity	Charges and fields	<a href="#">Click here to open the Charges and fields lab</a>
		Unit 12: Refraction of light	Bending of light	<a href="#">Click here to open the Bending of light lab</a>
<b>Chemistry</b>	Unit 1: Structure of an atom and mass spectrum	Atomic interactions	<a href="#">Click here to open the Atomic interactions lab</a>	
	Unit 1: Structure of an atom and mass spectrum	Isotopes and atomic mass	<a href="#">Click here to open the Isotopes and atomic mass lab</a>	
	Unit 1: Structure of an atom and mass spectrum	Molecules and light	<a href="#">Click here to open the Molecules and light lab</a>	
	Unit 1: Structure of an atom and mass spectrum	Rutherford scattering	<a href="#">Click here to open the Rutherford lab</a>	
	Unit 2: Electron configurations of atoms and ions.	Molecule shapes	<a href="#">Click here to open the Molecule shapes lab</a>	
	Unit 4: Covalent bond and molecular structures.	Molecule polarity	<a href="#">Click here to open the Molecule polarity lab</a>	

<b>4</b>		Unit 4: Covalent bond and molecular structures.	Molecules and light	<a href="#">Click here to open the Molecules and light lab</a>
		Unit 4: Covalent bond and molecular structures.	Molecule shapes	<a href="#">Click here to open the Molecule shapes lab</a>
		Unit 16: Acids and bases	Acid base solution	<a href="#">Click here to open the Acid base solution lab</a>
		Unit 16: Acids and bases	PH-scale	<a href="#">Click here to open the PH-scale lab</a>
		Unit 16: Acids and bases	PH scale basics	<a href="#">Click here to open the PH scale basics lab</a>
	<b>Physics</b>	Unit 1: Thin lenses	Bending of light	<a href="#">Click here to open the Bending of light lab</a>
		Unit 4: universal gravitation field	Pendulum lab	<a href="#">Click here to open the Pendulum lab</a>
		Unit 8: projectile and uniform circular motion	Projectile motion	<a href="#">Click here to open the Projectile motion lab</a>
		Unit 10: Effect of electric and potential fields	Charges and fields	<a href="#">Click here to open the Charges and fields lab</a>
	<b>Biology</b>	Unit 3: Microscopy	Simple Microscope	<a href="#">Click here to open the Simple microscope lab</a>
<b>5</b>	<b>Chemistry</b>	Unit 11: Solutions and titration	PH-scale	<a href="#">Click here to open the PH-scale lab</a>
		Unit 12: Conductivity of solutions	Electrolysis	<a href="#">Click here to open the Electrolysis lab</a>
		Unit 13: Electrolysis	Electrolysis	<a href="#">Click here to open the Electrolysis lab</a>
	<b>Physics</b>	Unit 1: Wave and Particle nature of light	Molecules and light	<a href="#">Click here to open the Molecules and light lab</a>
		Unit 2: Simple harmonic motion	Pendulum lab	<a href="#">Click here to open the Pendulum lab</a>
		Unit 2: Simple harmonic motion	Mass spring	<a href="#">Click here to open the Mass spring lab</a>
		Unit 2: Simple harmonic motion	Hooke's law	<a href="#">Click here to open the Hooke's law lab</a>
		Unit 3: damped and forced oscillation	Wave on string	<a href="#">Click here to open the Wave on string lab</a>

		Unit 4: propagation of mechanical waves	Sinusoidal wave	<a href="#">Click here to open the Sinusoidal wave lab</a>
		Unit 7: Electric field and gravitation potential	Charges and fields	<a href="#">Click here to open the Charges and fields lab</a>
		Unit 8: Motion in orbits	Pendulum lab	<a href="#">Click here to open the Pendulum lab</a>
		Unit 13: interference of light	Wave interference	<a href="#">Click here to open the Wave interference lab</a>
<b>6</b>	<b>Chemistry</b>	Unit 8: Quantitative chemical equilibrium	PH-scale	<a href="#">Click here to open the PH-scale lab</a>
		Unit 9: pH of acidic and alkaline solutions	PH-scale	<a href="#">Click here to open the PH-scale lab</a>
		Unit 15: Radioactivity	Molecules and light	<a href="#">Click here to open the Molecules and light lab</a>
	<b>Physics</b>	Unit 5: Atomic nuclei and radioactive decay.	Rutherford scattering	<a href="#">Click here to open the Rutherford lab</a>
		Unit 8: Nature of particles and their interactions.	Rutherford scattering	<a href="#">Click here to open the Rutherford lab</a>