

Lab in a box 2026

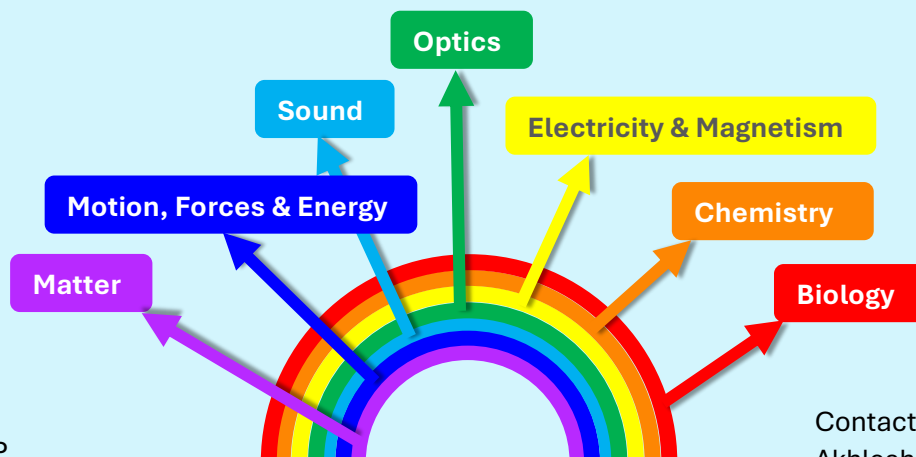
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List of activities in "Lab in a box v.2026" for middle and secondary school by "I Love Science"

Unit	Activity	VI	VII	VIII	IX	X	Material Sets
Physics							
1 - Matter							
1A – Separation of substances							
	Handpicking	✓					2
	Magnetic separation	✓					2
	Winnowing	✓					2
	Sedimentation-decantation-filtration	✓					2
	Evaporation	✓					2
1B – Heat & Temperature							
	Heat conduction		✓				1
	Air expansion on heating inflates balloon		✓		✓		5
	Make thermometer in a bottle		✓				5
	Temperature measurement & conversion	✓					1
2- Motion, Forces & Energy							
2A – Time & Motion							
	Make a sundial		✓				5
	Oscillations of a Pendulum		✓				5
2B – Forces & Friction							
	Make weighing scale from rubber-bands			✓	✓		5
	Friction in different material surfaces			✓	✓		5
	Rolling friction				✓		5
	Hovercraft				✓		5
	Make an electroscope			✓			1
2C – Air & water pressure							
	Bernoulli bag			✓			5
	Straw spray			✓			5
	Make hydraulic lift			✓			2
2D – Buoyancy (Float or sink)							
	Density: Make a boat from rubber			✓			5
	Make a boat of metal			✓			5
	Density & solubility of oil and water			✓			5
	Bottle diver (Sub marine)			✓			5
2E – Newton's laws of motion							
	Balloon powered car (3 laws of motion)				✓		5
	Action and reaction force using 2 scales				✓		5
2F - Simple machines							
	Pulley				✓		2
	Lever				✓		2
	Inclined plane				✓		2
	Wheel & Axle				✓		2
3: Sound							
	Observe longitudinal waves in slinky.				✓		1
	Sound from swinging pipe				✓		2
	Screaming balloon				✓		5

	Palm pipes				✓		2
	Stethoscope				✓		5
	Guitar				✓		5
	Cup telephone				✓		5
4: Optics							
4A – Light shadows & reflection							
	Test material of different transparency	✓					2
	Make a shadow game		✓				2
	Light travels in straight line		✓				5
	Pin hole camera		✓				5
	Reflection of light with plane mirror			✓			5
4B – Multiple reflections							
	Reflection form multiple mirrors		✓				5
	Kaleidoscope		✓				5
	Periscope		✓				5
4C – Spherical mirrors and lenses							
	Make convex and concave mirrors			✓		✓	1
	Making image from a concave mirror			✓		✓	2
	Image in a convex mirror			✓		✓	2
	Optical power and focal length of lenses			✓		✓	5
	Observe refraction in lenses using Green Laser			✓		✓	1
	Model of a camera			✓		✓	5
	Model of a projector			✓		✓	1
4D – Dispersion of light							
	Making a rainbow from prism					✓	1
	Mixing rainbow colors in Newton's disk					✓	5
4E – Vision							
	Model of human eye					✓	1
	Tyndall effect					✓	1
5 - Electricity & Magnetism							
5A – Electric circuit							
	Make an electric circuit		✓			✓	5
	Electric circuit with a motor.		✓				5
	Test good and bad conductors of electricity		✓				5
	Make a torch with a switch		✓				5
	Connect multiple LEDs in Parallel					✓	5
	Connect multiple LEDs in series					✓	1
	Ohm's law					✓	5
5B – Effects of electric current							
	Electric heating			✓		✓	5
	Electromagnet			✓		✓	5
	Solar electricity		✓		✓		5
5C – Electrochemistry							
	Test conductivity of liquids					✓	5
	Make an electric battery from lemon juice.			✓			5
	Electrolysis of water			✓		✓	1
5D – Magnets							

	Use compass to find N-S direction,	✓					5
	Make your own compass	✓					5
	Magnetic repulsion toys: Floating magnets.	✓					5
	Magnetic attraction: Magic flying kite.	✓					5
	Magnetic levitation.	✓					5
	Magnetic poles and field lines	✓					5
6 - Chemistry							
6A – Acids and bases							
	Testing acids and bases with pH paper				✓		5
	Testing acids and bases with litmus paper		✓				5
	Indicator fun: writing with turmeric		✓				5
	Acid base reaction,		✓				5
	CO ₂ as fire extinguisher		✓				5
	Neutralization test		✓				5
	CO ₂ Balloon		✓				5
	Lava bottle with Eno Tablet		✓				5
6B – Food testing (Components of food)							
	Test starch in food	✓					5
	Test protein in food	✓					5
	Test presence of fat in food	✓					5
	Test presence of glucose in food	✓					5
6C – Chemical reactions							
	Displacement reaction				✓		2
	Metals reaction with Acids or bases				✓		1
	Testing oxygen in air		✓				2
	Burning of Magnesium ribbon		✓		✓		1
7 - Biology							
7A – Seed germination							
	Germination of seeds	✓			✓		1
7B – Human body systems							
	Human skeletal system				✓		1
	Bone joints: Hinge, Ball & Socket joint, Pivot joint				✓		1
	Respiratory systems: Model of lungs		✓			✓	1
	Check Carbon dioxide in the air we exhale		✓			✓	5
	Digestive system					✓	1
7C – Using Microscope to view miniature life							
	Using compound Microscope 400x (Optional)				✓		1
	Observe stomata in microscope		✓			✓	1
	Paper microscope & prepared slides			✓	✓		5
	Making onion peel slide to view plant cells			✓	✓		5
	Using a bug viewer	✓					5
7D - Microorganisms							
	Fermentation with yeast			✓			1
	102	19	28	25	24	28	