

Science Lookbook

We exist so
everyone can
learn, lead
and play.

Content

Daily and seasonal changes

Living things have basic needs

Observation of external features of living things

Changes in sky and landscape

Sound

Physical changes to materials

Life cycles

Use of Earth's resources

Pushes and pulls

Grouping organisms by features

Day and night

Changes to Earth's surface

Earth as part of a system of planets

Water cycle

Particle Theory

Matter and energy in ecosystems

Plate tectonics

Conservation of energy

The carbon cycle

From

Kindy

Kindy

Year 1

Year 1

Year 1

Year 1

Year 2 & 4

Year 2

Year 2

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Year 3

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Year 1

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Year 9

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












Our Top-Selling Data Loggers

Product Code	Description	Examples of Investigations	Qty to Order
DATH2253PK	Wireless pH Pack	Titration of vinegar; Effect of lipase on milk	
DATH1240	Wireless Drop & Bubble Counter	Measuring rates of reactions; Acid base titrations	
DATH1220	Wireless Colorimeter & turbidity	Water quality measurement; Colorimetric determination of glucose concentration	
DATH1112	Wireless Conductivity	Total dissolved solids; Ions & metal in water	
DATH1102	Wireless Thermocouple	Enthalpy changes; Changes of state; Kinetic energy to heat	
SER1100	Bluetooth Wireless Smart Temperature Sensor	Heat investigations; Changes of state; Temperature changes with titrations	
DATH1200	Wireless Light Gate	Motion studies; Newton's Second Law; Measuring G by free fall	
DATH1500PK	Wireless Dynamics System	Momentum & collision investigations; Newton's Second Law	
DATH1190	Wireless Motion Sensor	Simple Harmonic Motion; Distance-time graphs	
DATH1120	Wireless Force Accelerometer Sensor	Friction studies; Forces acting on a floating object; Forces & levers investigations	
DATH1140	Wireless Magnetic Field Sensor	Magnetic field strength using an electromagnetic	
DATH1131	Wireless Voltage & Current Sensor - 5 V	Magnet through a coil; Ohm's law; Height and induced voltage	
DATH1250	Wireless Charge	Sign & size of electrostatic charge; Various static studies	
DATH1160	Wireless Light & Colour Sensor	Reflections; Youngs single & double slit diffraction	
DATH1170	Wireless Oxygen in Air	Inhaled & exhaled air; Photosynthesis by CO ₂ change	
DATH1180	Wireless Carbon Dioxide in Air	Inhaled & exhaled air; Photosynthesis by CO ₂ change; Carbon Dioxide in open & closed environments	
DATHACC-21	Environmental Bio Chamber	Use in conjunction with O ₂ and CO ₂ sensors to monitor respiration and photosynthesis	
DATH1114	Wireless Oxygen - Dissolved	Dissolved oxygen studies	
DATH1156	Wireless Heart Rate	Heart rate recovery; Effect of exercise on heart rate	
DATH1157	Wireless Spirometer	Investigating peak flow rates and flow volume (lung capacity)	
DATH1205	Wireless Infra-Red	Heat transfer; monitoring plant stress	
DATH1261PK	Wireless Push Button Switch Pack	Reaction times	
DATH1262PK	Wireless Timing Mats Pack	Calculating kinetic energy; Speed investigations	

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Content Descriptor	MTA Code	Description	Std price	Image
Curriculum Resources - Primary				
Foundation				
Science Understanding – Physical Sciences				
AC9SFU02 describe how objects move and how factors including their size, shape or material influence their movement	TFC51354	Marbles Assorted	\$7.95	
	19-208	HART X-Out Tennis Ball	\$2.45	
	WS181I5	NYDA Indigenous Basketball #5	\$17.50	
	WS602955	Egg & Spoon Set of 6	\$22.95	
	CT73438	Wooden Jumbo Blocks Pack of 54	\$199.95	
	VP41140	Viking Toys - Chubbies Toy Bucket - 15pcs	\$61.95	
Science Understanding – Biological Sciences				
AC9SFU01 observe external features of plants and animals and describe ways they can be grouped based on these features	LS6966	Instant Learning Centre Plants	\$102.95	
	AKR20527	The Animal World: Discover and Classify Game	\$66.95	
	FD0201	Two Way Viewer	\$20.95	
Science Understanding – Chemical Sciences				
AC9SFU03 recognise that objects can be composed of different materials and describe the observable properties of those materials	GC4802	Texture Time Toddler Loose Parts STEM Kit	\$360.45	
	KD12730	Matching Textures Feely Bag	\$38.45	
	NK2804	Hand Magnifiers - Pack of 12	\$75.95	
	ANTO16139	Texture Matching Sliding Game	\$92.95	

Year 1
Science Understanding – Earth & Space Sciences
AC9S1U02





describe daily and seasonal changes in the environment and explore how these changes affect everyday life

LS6977	Instant Learning Centre - Weather & Seasons	\$102.95	
LER2418	Calendar and Weather Chart	\$99.95	
IP0826	Upright Weather Station	\$179.95	
SERXC0400	Mini LCD Display Weather Station	\$169.95	
WOLA8162K	Deadly Science -Wild Weather Kit	\$202.84	

Science Understanding – Physical Sciences
AC9S1U03

Describe pushes and pulls in terms of strength and direction and predict the effect of these forces on objects' motion and shape

LS2233	Can Do! Motion Discovery Kit	\$75.45	
LB59621	Mini Vehicle Set 6 Pieces	\$30.95	
CS2056	Creatistics Dough Assorted - 900 g	\$10.95	
BUI7231	BS Toys Tug of War	\$51.45	
WS161278	Oversize Foam Bat	\$25.95	
5-977	HART Adjustable T-Ball Stand	\$54.95	
5-107	HART Foam Softball 12 Inch	\$3.95	
JY238A	3-in-1 Badminton Volleyball & Tennis Set	\$163.95	

Science Understanding – Biological Sciences				
AC9S1U01 Identify the basic needs of plants and animals, including air, water, food or shelter, and describe how the places they live meet those needs	DTB6558	Jiffy Peat Greenhouse - 16 x 50mm Pellets	\$26.95	
	AK20562	Where Do Animals Live?	\$56.95	
	EN5145	Geosafari Ant Factory	\$79.95	
	WOLA8667K	Deadly Science - How plants Thrive	\$262.20	









Year 2

Science Understanding – Earth & Space Sciences

AC9S2U01

recognise Earth is a planet in the solar system and identify patterns in the changing position of the sun, moon, planets and stars in the sky

LER6040	Giant Magnetic Solar System - 12 Pieces	\$69.95	
RE48062	Constellation Cards	\$79.95	
ANTO6110K	Early Explorers: Solar System Kit	\$187.80	
FRFR500K	Early Years Hands-On Solar System Kit	\$326.80	
FRFF827	Our Solar System Mats	\$129.95	
LER2434	Inflatable Solar System Set	\$99.95	
WOLA8643	Deadly Science - The Solar System	\$24.95	
EL8994	Planetarium Educational Kit	\$18.95	
EN5287	Motorised Solar System	\$119.95	
OZ-BIT-SOLAR	Ozobot Bit + Solar System kit	\$248.35	
SER1003098	SF Globe - Celestial Standard - 30cm	\$82.45	







Science Understanding – Physical Sciences				
AC9S2U02 explore different actions to make sounds and how to make a variety of sounds, and recognise that sound energy causes objects to vibrate	SER1010408	Tuning Fork - Blue Steel 640Hz	\$7.50	
	QM0608	Music Set in Wooden Case	\$159.95	
	LS2244	Can Do! Sound Discovery Kit	\$75.45	
	LER92393	DIY Music Maker Science Lab	\$83.95	
	RR601	Cultural Music Set	\$449.95	
	MW01	Aboriginal Instruments Clapsticks 28 cm	\$59.95	
	HLT10018	Haliit Classroom Instruments - 18 Pieces	\$129.95	
	SER2305PK	Vu+ USB & Bluetooth Data Logger	\$499.95	

Year 3

Science Understanding – Biological Sciences

AC9S3U01







compare characteristics of living and non-living things and examine the differences between the life cycles of plants and animals











KNB019-K	Mini Beasts Life Cycle Blocks	\$249.75	
TFC59058K	Plant and Animal Life cycle Kit	\$433.05	
LER6043	Giant Magnetic Butterfly Life Cycle Set - 9 Pieces	\$69.95	
LER6045	Giant Magnetic Plant Life Cycle Set - 12 Pieces	\$69.95	
WOLA8667K	Deadly Science - How plants Thrive	\$262.20	
WOLA7819K	Deadly Science - Life cycles	\$190.30	

Science Understanding – Earth & Space Sciences

AC9S3U02

compare the observable properties of soils, rocks and minerals and investigate why they are important Earth resources

EISENG0005K	Rock Kits - Set of 3	\$194.85	
NY815-5	Plastic Sand Sieve 5 Pack	\$14.75	
LION1088025	Shaker Sieve	\$118.45	
NK2804	Hand Magnifiers - Pack of 12	\$75.95	
LION1310720	Collecting Tray	\$13.95	
SER1086060	Rock Set Mineral - 25x25mm - Set of 42	\$129.95	




Science Understanding – Physical Sciences				
AC9S3U03 Identify sources of heat energy and examine how temperature changes when heat energy is transferred from one object to another	MKZ09586	Wall Element - Heat Sensitive Fun Board	\$298.95	
	SER1052988	Charles' Law - Hand Boiler	\$22.95	
	LION2501	Lab Silicon cube mould	\$3.95	
	SER2305PK	Vu+ USB & Bluetooth Data Logger	\$499.95	
	EIS1200	Plastic Thermometers -40 to +50 °C - Pack of 12	\$43.45	
Science Understanding – Chemical Sciences				
AC9S3U04 Investigate the observable properties of solids and liquids and how adding or removing heat energy leads to a change of state	LION2501	Lab Silicon cube mould	\$3.95	
	TFC10980	Volume Relationship Set 8 pc	\$32.95	
	TEB0054	PE zip lock bag 25x35cm Pk 25	\$4.30	
	CS11112	Creatistics Twist Crayons - Pack of 12	\$5.09	
	STSCI301	StreetScience Class Kit Y3 Perfect Polymers	\$324.45	

Year 4

Science Understanding – Earth & Space Sciences

AC9S4U02







Identify sources of water and describe key processes in the water cycle, including movement of water through the sky, landscape and ocean; precipitation; evaporation; and condensation

BE89853	Magnetic Water Cycle Model	\$149.95	
NEWP7817	Water Cycle Model Making Kit	\$57.95	
SER1160001	Weather Station - Wireless with Outdoor Sensors	\$99.95	

Science Understanding – Physical Sciences

AC9S4U03



Identify how forces can be exerted by one object on another and investigate the effect of frictional, gravitational and magnetic forces on the motion of objects





SER1052958	Friction Ramp - with 5 Surfaces & 4 Angles	\$199.95	
SER1005081	Friction Kit	\$109.95	
EIS00007	Garage Physics: DIY Catapult Kit	\$41.45	
CT50241	Magnet Materials Test Kit	\$129.95	
STSCI401	StreetScience Class Kit Y4 Rocket Science	\$324.45	
SER2305PK	Vu+ USB & Bluetooth Data Logger	\$499.95	

Science Understanding – Chemical Sciences

AC9S4U04

Examine the properties of natural and made materials including fibres, metals, glass and plastics and consider how these properties influence their use

7-720	HART Kidz Cricket Bat Size 5	\$13.95	
7-003-5	HART Diamond Cricket Bat Size 5	\$53.95	
WS260433	WOS Soft Cricket Ball 142g	\$5.50	
WS260402	Beach Cricket Ball	\$7.50	
WS260456	Kookaburra Red King Cricket Ball - 142g	\$58.95	
7-708	HART Metal Stumps	\$26.95	









AC9S4U04 examine the properties of natural and made materials including fibres, metals, glass and plastics and consider how these properties influence their use	7-700	HART Wooden Stumps	\$26.95	
	SER2305PK	Vu+ USB & Bluetooth Data Logger	\$499.95	
Science Understanding – Biological Sciences				
AC9S4U01 explain the roles and interactions of consumers, producers and decomposers within a habitat and how food chains represent feeding relationships	SCA8206	Hattie and the Fox	\$16.95	
	MJI1403K	Let's Learn More About Food Big Book Set	\$239.80	

Year 5

Science Understanding – Earth & Space Sciences

AC9SSU02



Describe how weathering, erosion, transportation and deposition cause slow or rapid change to Earth's surface

LION1310720	Collecting Tray	\$13.95	
NY602	Watering Can And Spout 2 L	\$19.95	
JM251	Paper Straws - Pack of 250	\$12.95	
DM7002	Small Clear Container 35x26x11.5cm No Lid	\$22.95	
YD1039	Natural Sorting Stones Set of 12	\$61.95	
TFC70159	Storage Jar with lid 250 ml	\$5.50	
CS5059	Creatistics Sidewalk Chalk - Tub of 20	\$5.09	
WOLA8636K	Deadly Science -Earth's Changing Surfaces Kit	\$387.55	

Science Understanding – Physical Sciences

AC9SSU03




Identify sources of light, recognise that light travels in a straight path and describe how shadows are formed and light can be reflected and refracted





CD5864	Light and Colour Poster	\$9.95	
SERHL2060-001	Light Box - Hodson with Optical Set	\$259.95	
SER2305PK	Vu+ USB & Bluetooth Data Logger	\$499.95	

Science Understanding – Chemical Sciences

AC9SSU04

explain observable properties of solids, liquids and gases by modelling the motion and arrangement of particles

JM251	Paper Straws - Pack of 250	\$12.95	
WS810451	NYDA Jumbo Table Tennis Balls Set of 6	\$17.50	
WDSS-236	Young Sci Club Phases of Matter	\$349.95	





Science Understanding – Biological Sciences				
AC9S5U01 examine how particular structural features and behaviours of living things enable their survival in specific habitats	KNB0011	Camouflage Mini Beasts Set of 9	\$175.45	
	WOLA8155K	Deadly Science - Adaptations	\$305.25	
	KNB07	Plant Kingdom Slides	\$139.95	
	GC4502	Specimen Stones: Plants	\$144.45	

Year 6

Science Understanding – Earth & Space Sciences

AC9S6U02








describe the movement of Earth and other planets relative to the sun and model how Earth's tilt, rotation on its axis and revolution around the sun relate to cyclic observable phenomena, including variable day and night length

WOLA8643K	Deadly Science -The Solar System Kit	\$231.75	
EL8994	Planetarium Educational Kit	\$18.95	
EN5287	Motorised Solar System	\$119.95	
SER1003170	Planetarium - Orbiter Solar System	\$99.95	

Science Understanding – Physical Sciences

AC9S6U03


investigate the transfer and transformation of energy in electrical circuits, including the role of circuit components, insulators and conductors





EL024040K	Christmas Lights Circuit Class Kit	\$337.60	
EL024044K	STEAM Circuits: Basic Kit	\$360.30	
NK1005	Click Electronics Explorers Kit	\$109.95	
GG1236	Electricity & Circuit Kit - 20 Modules	\$199.95	
SER1011057	Economy Electricity Kit	\$56.95	
SER1014190	Fruit Clock	\$29.95	
WOLA8674	Deadly Science - Renewable Resources	\$24.95	

Science Understanding – Chemical Sciences

AC9S6U04

compare reversible changes, including dissolving and changes of state, and irreversible changes, including cooking and rusting that produce new substances

WDS3-288	Separation of a Mixture: Physical Properties of Ma	\$262.45	
STSCI603	StreetScience Class Kit Y6 Perfect Polymers	\$629.95	
KTP1007	Kitchen Utensils Set	\$30.95	
DN115CH	24 Cup Silicone Mini Muffin Pan	\$21.95	
KTP1011	Stainless Steel Mixing Bowls - Set of 3	\$30.95	

AC9S6U04 compare reversible changes, including dissolving and changes of state, and irreversible changes, including cooking and rusting that produce new substances	TRE329	Measuring Cups Set of 4	\$15.39	
	TRE324	Measuring Spoons Set of 4	\$10.95	
	TH013	Mini Coloured Patty Pans - Pack of 1000	\$17.95	
	EN5095	See-Through Compost Container	\$79.95	

Science Understanding – Biological Sciences

AC9S6U01 investigate the physical conditions of a habitat and analyse how the growth and survival of living things is affected by changing physical conditions	WOLA8655K	Deadly Science -Animal Survival Kit	\$311.80	
	QGP273	Indoor Greenhouse	\$144.45	
	EH7543BK	Green Basics Complete Grow Table Living Black	\$183.90	
	CB960	Enviro Grow Growing Kit - Pack of 30	\$72.45	
	JM850	White Eco Paper Cups 8 Oz - Pack of 50	\$9.25	
	SERLB2160-001	Spare Microscope Lamp Clear Tint - 240V 25W	\$60.95	
	SER2305PK	Vu+ USB & Bluetooth Data Logger	\$499.95	

Curriculum Resources - Secondary

Year 7

Science Understanding – Earth & Space Sciences

AC9S7U03

model cyclic changes in the relative positions of the Earth, sun and moon and explain how these cycles cause eclipses and influence predictable phenomena on Earth, including seasons and tides

















EIST008SM	Earth Sun and Moon model	\$216.45	
TFC59019	Phases of the Moon Chart	\$12.95	
SER1003098	SF Globe - Celestial Standard - 30cm	\$82.45	
DC50228	Torch	\$9.95	
NK51336	Polystyrene Ball 100mm	\$1.50	

Science Understanding – Physical Sciences

AC9S7U04






investigate and represent balanced and unbalanced forces, including gravitational force, acting on objects, and relate changes in an object's motion to its mass and the magnitude and direction of forces acting on it

DATH1120	Wireless Force Accelerometer Sensor	\$499.95	
EIS00002K	Garage Physics - DIY Activities Kit	\$611.00	
GG1234K	Forces & Simple Machines - 20 Modules - Set of 4	\$439.80	
LER2442	Simple Machines Discovery Set - 63 Pieces	\$99.95	
EIS0019K	Wooden Simple Machines Class Set - Set of 12	\$678.40	
SER1010017	Incline Plane - Kit - With Scale	\$102.95	
SER1055001	Halls Cart - Inclined Plane Cart	\$18.95	
SER1052958	Friction Ramp - with 5 Surfaces & 4 Angles	\$199.95	
SER1005081	Friction Kit	\$109.95	
SER1005080	Friction Block - Cube Single	\$21.95	
EIS0349ECB	Economy Collision Balls	\$72.95	

AC9S7U04 investigate and represent balanced and unbalanced forces, including gravitational force, acting on objects, and relate changes in an object's motion to its mass and the magnitude and direction of forces acting on it	EISLID17	Large Inertia Demo	\$151.45	
	DC11730	Spring Balance Set 6 pc	\$86.70	
	TECH336101	Meter Newton Digital	\$136.95	
Science Understanding – Chemical Sciences				
AC9S7U05 use particle theory to describe the arrangement of particles in a substance, including the motion of and attraction between particles, and relate this to the properties of the substance	WDS5-528	Physical & Chemical Properties of Matter Kit	\$756.95	
	SER1100	Bluetooth Wireless Smart Temperature Sensor	\$249.95	
	NK50032	Environmentally Friendly Thermometer	\$6.45	
	SER1004600	Hot Plate - Max Temp 500°C	\$499.95	
	SER1052226	Thermometer Clip for use with Beakers	\$4.95	
	EIS01261-6	500 ml MTA Borosilicate Beakers - Pack of 6	\$54.95	
	LION2501	Lab Silicon cube mould	\$3.95	
	X104	Balloons 30 cm - Pack of 100	\$19.50	
AC9S7U06 use particle model to describe differences between pure substances and mixtures and apply understanding of properties of substances to separate mixtures	SER1055047	Density Cubes - 2.5cm ³ - Set of 10	\$39.95	
	WDS3-288	Separation of a Mixture: Physical Properties of Ma	\$262.45	
	SER1013035	75 mm Economy Plastic Filter Funnel	\$2.60	
	EIS1392A	Filter Paper - 100 x 9cm Pieces	\$4.30	
	DC51008	Large Ferrite Block Magnet	\$2.75	





AC9S7U06 use particle model to describe differences between pure substances and mixtures and apply understanding of properties of substances to separate mixtures	CT0611	Iron Filings Shaker - 225g	\$19.95	
	SERSL046-2.5K	Sodium Chloride - LR - 2.5 kg	\$49.95	
	SER1010224K	Simple Distillation Kit- Interchangeable Glassware	\$99.95	
	SER1052452	250 ml Economy Pear-Shape Separating Funnel	\$40.95	
	NY815	Plastic Sand Sieve	\$2.95	
	SER1052980	Centrifuge Mini - 4k-6k-10k - 6x1.5 Tubes	\$469.95	
	SER1052980A	1.5 ml Plastic Centrifuge Tubes - Pack of 50	\$20.95	

Science Understanding – Biological Sciences

AC9S7U01 investigate the role of classification in ordering and organising the diversity of life on Earth and use and develop classification tools including dichotomous keys	TFC59009-K	All About Animals Poster Pack	\$116.55	
	KNB2411	Mini Beasts Insects and Spiders - Large Set	\$224.95	
	KNB07	Plant Kingdom Slides	\$139.95	
	KNB006	Mini Beasts Ocean Set Large	\$205.95	
	CS1001	Creatistics Assorted Buttons Bright - 600 g	\$22.95	
	SCIW24-6	Ecosystem in a Jar Class Kit	\$140.55	






Year 8
Science Understanding – Earth & Space Sciences
AC9S8U03

investigate tectonic activity including the formation of geological features at divergent, convergent and transform plate boundaries and describe the scientific evidence for the theory of plate tectonics

EISBD007	Globe Model Earth - Cross Sectional 7 piece	\$540.95	
NK0201	Model of Earth's internal structure - 32cm	\$149.95	
NEWP8002	Dynamic Earth Bulletin Board Chart Set of 3	\$31.95	
EIS0014	Seismograph Model	\$85.95	




AC9S8U04











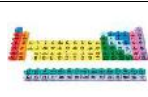






describe key processes of the rock cycle, including the timescales over which they occur, and examine how the properties of sedimentary, igneous and metamorphic rocks reflect their formation and influence their use




EISESNG0005K	Rock Kits - Set of 3	\$194.85	
WDS0-366	Rock Cycle Riker Mount	\$252.95	
SER1086060	Rock Set Mineral - 25x25mm - Set of 42	\$129.95	
WDS6-754	Introductory Fossil Collection	\$172.95	
NY602	Watering Can And Spout 2 L	\$19.95	
JM251	Paper Straws - Pack of 250	\$12.95	
DM7002	Small Clear Container 35x26x11.5cm No Lid	\$22.95	
YD1039	Natural Sorting Stones Set of 12	\$61.95	

Science Understanding – Physical Sciences
AC9S8U05













classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems






SER1052960	Loop de Loop Apparatus - Kinetic Energy	\$62.95	
SER1127004A	Newtons Cradle - Collision Balls	\$59.95	
EIS0115D	Springs Extension - Steel - 15.5mm(d)	\$2.10	

AC9S8U05 classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems	EIS00017	Garage Physics: Ball-Bearing Roller Coaster Kit	\$69.95	
	HORJ31	Multi Energy Car Science Kit	\$473.95	
	HORI20	Hydrocar	\$205.95	
	SER1092011	Water Turbine - Hydro Electric Energy Conversion	\$89.95	
	LION2874100	Solar Cell Demo Kit	\$37.45	
	GG1240K	Light & Solar Energy Kit - 20 Modules - Set of 4	\$679.80	
	NK1005	Click Electronics Explorers Kit	\$109.95	
	SER1011057	Economy Electricity Kit	\$56.95	
	X104	Balloons 30 cm - Pack of 100	\$19.50	
Science Understanding – Chemical Sciences				
AC9S8U06 classify matter as elements, compounds or mixtures and compare different representations of these, including 2-dimensional and 3-dimensional models, symbols for elements and formulas for molecules and compounds	SER1052869	Sticky Atoms - Self Assemble - Magnetic Model Kit	\$86.45	
	LER90634	Connecting Colour Tiles Periodic Table	\$52.45	
	QE50200	Stick to Science - Magnetic Periodic Table	\$114.95	
AC9S8U07 compare physical and chemical changes and identify indicators of energy change in chemical reactions	EIS0722E	16 x 150 mm Borosilicate Test Tubes - Pack of 100	\$123.95	
	SER1010195	White Tile Ceramic 20x20cm PK10	\$39.95	
	SERSL074-100G	Sodium Metal Lumps LR 100 g	\$119.95	
	SER1119001	Face Shield - Full Face	\$35.95	
	NK50032	Environmentally Friendly Thermometer	\$6.45	

AC9S8U07 compare physical and chemical changes and identify indicators of energy change in chemical reactions	SER1100	Bluetooth Wireless Smart Temperature Sensor	\$249.95	
	DATH1160	Wireless Light & Colour Sensor	\$369.95	
	DATH1240	Wireless Drop & Bubble Counter	\$549.95	

Science Understanding – Biological Sciences

AC9S8U01 recognise cells as the basic units of living things, compare plant and animal cells, and describe the functions of specialised cell structures and organelles	EISM0050	Plant and Animal Cell Comparison Models	\$216.45	
	RE59280	See-Through Animal Cell	\$34.95	
	RE59281	See-Through Plant Cell	\$34.95	
	EISM101B	Neuron Model	\$141.45	
	EIS0276BV	Bio Viewer	\$32.95	
	EISBV11	Bio Viewer Slide Set - Human Bio Cells of your Body	\$14.35	
	EISBV03	Bio Viewer Slide Set Cell Structure	\$14.35	
	EISBV18	Bio Viewer Slide Set The Plant Kingdom	\$14.35	
	EISBV01	Bio Viewer Slide Set Cell of Plants & Animals	\$14.35	
	EIS0276BV3	Bio Viewer Slide Set - Bacteria and Virus	\$42.25	
	SER1122032	Microscope - Monocular Junior-Senior - 4-10-40x	\$309.95	
	SER1197007	Slide Set - Biology General - Set of 25	\$75.45	






AC9S8U02 analyse the relationship between structure and function of cells, tissues and organs in a plant and an animal organ system and explain how these systems enable survival of the individual	BE757882	Magnetic Digestive System Model	\$89.95	
	BE89946	Magnetic Blood Circulation Model	\$149.95	
	LER3535	Pumping Heart Model	\$79.95	
	SER1313031	Skeleton with Bones Muscles and Ligaments	\$583.95	
	NK0306	Real Life Size Unisex Human Torso - 23 Parts	\$499.95	
	NK1805	Lung Demonstration Model	\$44.95	
	NK1802	Human Lungs Model	\$185.95	
AC9S8U02 analyse the relationship between structure and function of cells, tissues and organs in a plant and an animal organ system and explain how these systems enable survival of the individual	SER1066711	Respiratory System Model - Enlarged Alveolus	\$216.45	
	EIS0100	Typical Flower Model - Dissectable	\$102.95	

Year 9

Science Understanding – Earth & Space Sciences

AC9S9U03

represent the carbon cycle and examine how key processes including combustion, photosynthesis and respiration rely on interactions between Earth's spheres (the geosphere, biosphere, hydrosphere and atmosphere)
















SER1160001	Weather Station - Wireless with Outdoor Sensors	\$99.95	
EISBV19	Bio Viewer Slide Set Photosynthesis	\$14.35	
DATHACC-21	Environmental BioChamber	\$119.95	
DATH1180	Wireless Carbon Dioxide in Air	\$849.95	
DATH1170	Wireless Oxygen in Air	\$759.95	
WDS4-222	The Greenhouse Effect: Exploring the Theory Kit	\$291.45	


















Science Understanding – Physical Sciences













AC9S9U04

use wave and particle models to describe energy transfer through different mediums and examine the usefulness of each model for explaining phenomena

SER1035269	Wave Motion Apparatus - Powell's Pattern	\$75.45	
SER1011008	Heat Conductivity Ring - Conductometer	\$29.95	
EIS0397G	Rods for Thermal Conductivity - 6 Rods	\$26.95	
SER1010032	Heat Conductivity App. With Thermometer - Set of 4	\$55.95	
SER1014090	Radiation Cans with Stopper - Set of 2	\$24.95	
SER1010424	Convection in Water	\$16.45	
SER1008028	Drinking Bird	\$23.95	
EIS0614A	Refraction & Reflection Demonstration Model	\$179.95	
SERHL2060-001	Light Box - Hodson with Optical Set	\$259.95	
SER1024039	Laser Pointer - 0.5Mw - Red	\$28.95	





AC9S9U04 use wave and particle models to describe energy transfer through different mediums and examine the usefulness of each model for explaining phenomena	SER1052964	Light Bender - 2 Loop Optical Bar - Optical Fiber	\$39.95	
	SER1010106	Spring - Slinky 75mm x 100mm L	\$15.39	
	SER1052591	Bell in Vacuum with Plate & Bell - Electric	\$199.95	
	SER1149001	Oscilloscope - Dual Trace Digital - 20Mhz	\$959.95	
	SER1104008	Microphone - Oscilloscope & Signal Generator	\$48.45	
	SER1052222	Van De Graaff Generator - 400Kv with Accessories	\$699.95	
	DATH1102	Wireless Thermocouple Sensor	\$439.95	
	SER1100	Bluetooth Wireless Smart Temperature Sensor	\$249.95	
	DATH1205	Wireless Infra-Red	\$409.95	
AC9S9U05 apply the law of conservation of energy to analyse system efficiency in terms of energy inputs, outputs, transfers and transformations	SER1052988	Charles' Law - Hand Boiler	\$22.95	
	HORJ31	Multi Energy Car Science Kit	\$473.95	
	HORI20	Hydrocar	\$205.95	
	SER1092011	Water Turbine - Hydro Electric Energy Conversion	\$89.95	
	LION2874100	Solar Cell Demo Kit	\$37.45	
	SER1010374	Pendulum Bob Round Brass 25mm with Hook	\$16.45	

AC9S9U05 apply the law of conservation of energy to analyse system efficiency in terms of energy inputs, outputs, transfers and transformations	EIS0115D	Springs Extension - Steel - 15.5mm(d)	\$2.10	
	EIS00017	Garage Physics: Ball-Bearing Roller Coaster Kit	\$69.95	
	SER1052960	Loop de Loop Apparatus - Kinetic Energy	\$62.95	
	SER1127004A	Newtons Cradle - Collision Balls	\$59.95	
Science Understanding – Chemical Sciences				
AC9S9U06 explain how the model of the atom changed following the discovery of electrons, protons and neutrons and describe how natural radioactive decay results in stable atoms	SERATM13	Atom Model	\$75.45	
	EISHALF	Half-Life Analogue Set	\$92.95	
	TFC16071	Dice: 16 mm Dot Dice Jar 100 pc	\$54.95	
AC9S9U07 model the rearrangement of atoms in chemical reactions using a range of representations, including word and simple balanced chemical equations, and use these to demonstrate the law of conservation of mass	EIS00604	Atomic & Molecular Model - Large Set	\$75.45	
	SER1052946	Analytical Balance - 200 x 0.001 g	\$399.95	
Science Understanding – Biological Sciences				
AC9S9U01 compare the role of body systems in regulating and coordinating the body's response to a stimulus, and describe the operation of a negative feedback mechanism	LER3535	Pumping Heart Model	\$79.95	
	SER1010345	Stethoscope - Dual Head	\$15.39	
	SER1016077	3 Point Medical Hammer	\$51.95	
	SER1313031	Skeleton with Bones Muscles and Ligaments	\$583.95	
	LER3337	Skeleton - 23.4 cm	\$55.95	
	NK0306	Real Life Size Unisex Human Torso - 23 Parts	\$499.95	
	SER1313062	Model - Leg Musculature with Foot & Pelvis	\$756.95	
	KX306	Infrared Forehead Thermometer	\$95.95	













AC9S9U01 compare the role of body systems in regulating and coordinating the body's response to a stimulus, and describe the operation of a negative feedback mechanism	DATH1261PK	Wireless Push Button Switch Pack	\$369.95	
	DATH-KIT3	Wireless Physiological Sensors Kit	\$2,165.80	
	DATH1205	Wireless Infra-Red	\$409.95	
	DATH1101	Wireless Temperature Sensor - Fast Response	\$299.95	
AC9S9U02 describe the form and function of reproductive cells and organs in animals and plants, and analyse how the processes of sexual and asexual reproduction enable survival of the species	NK0306	Real Life Size Unisex Human Torso - 23 Parts	\$499.95	
	SER1066124	Model - Testicle Human	\$129.95	
	SER1066029	Reproductive Model - Genital Organs - Female	\$83.95	
	SER1313017	Model - Pelvis - Male - Urinary & Reproductive	\$291.45	
	SER1313018	Model - Spermatogenesis	\$216.45	
	EIS0100	Typical Flower Model - Dissectable	\$102.95	
	EIS0276BV	Bio Viewer	\$32.95	
	EISBV12	Bio Viewer Slide Set Human Reproduction	\$14.35	





Year 10

Science Understanding – Earth & Space Sciences

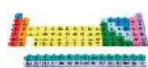

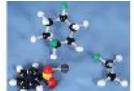





AC9S10U03 describe how the big bang theory models the origin and evolution of the universe and analyse the supporting evidence for the theory	X104	Balloons 30 cm - Pack of 100	\$19.50	
	TH034	Write Anywhere Permanent Pens Black - Pack of 20	\$34.95	
AC9S10U04 use models of energy flow between the geosphere, biosphere, hydrosphere and atmosphere to explain patterns of global climate change	BE759818	Magnetic Climate Change Cycle Model	\$139.95	
	DATH1205	Wireless Infra-Red	\$409.95	

Science Understanding – Physical Sciences

AC9S10U05 Investigate Newton's laws of motion and quantitatively analyse the relationship between force, mass and acceleration of objects	EIS00007K	Garage Physics - Projectiles Kit	\$383.75	
	EIS0351	Metal Dynamic Trolley Pair	\$118.45	
	SER1052940	Projectile Launcher Mini without Photo Gates	\$113.45	
	EIS1120143	Bottle Rocket Launching Platform	\$236.95	
	SER1055001	Halts Cart - Inclined Plane Cart	\$18.95	
	SER1010017	Incline Plane - Kit - With Scale	\$102.95	
	EISLID17	Large Inertia Demo	\$151.45	
	SER1055020	Free Fall Tube - Guinea & Feather - Gravity Demo	\$99.95	
	SERLB2670-001	Ticker Timer - Recording Timer - 8-12V A.C.	\$109.95	
	SER1010006	Slotted Weight Set of 9 x 50g with 50g Carrier	\$41.45	
	SER1005003	1000 g 10 N Spring Balance	\$10.95	
	DATH1500PK	Wireless Dynamics System	\$1,999.95	


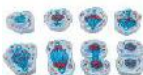




AC9S10U05 Investigate Newton's laws of motion and quantitatively analyse the relationship between force, mass and acceleration of objects	DATH1120	Wireless Force Accelerometer Sensor	\$499.95	
	DATH1192	Wireless Acceleration	\$379.95	
	DATH1190	Wireless Motion Sensor	\$599.95	
	DATH1200	Wireless Light Gate	\$349.95	

Science Understanding – Chemical Sciences

AC9S10U06 explain how the structure and properties of atoms relate to the organisation of the elements in the periodic table	LER90634	Connecting Colour Tiles Periodic Table	\$52.45	
	SERATM13	Atom Model	\$75.45	
AC9S10U07 Identify patterns in synthesis, decomposition and displacement reactions and investigate the factors that affect reaction rates	SER1021008	MolecModels3D - Organic Student Set	\$54.95	
	DATH1240	Wireless Drop & Bubble Counter	\$549.95	
AC9S10U07 Identify patterns in synthesis, decomposition and displacement reactions and investigate the factors that affect reaction rates	SER1100	Bluetooth Wireless Smart Temperature Sensor	\$249.95	
	DATH2253PK	Wireless pH Pack	\$339.90	
	DATH1220	Wireless Colorimeter	\$469.95	
	SER1052386	pH 1-14 Indicator Paper Strips - Pack of 100	\$2.60	

Science Understanding – Biological Sciences

AC9S10U01 explain the role of meiosis and mitosis and the function of chromosomes, DNA and genes in heredity and predict patterns of Mendelian inheritance	SER1021368	MolecModels3D - DNA Molecular Model 22 Layer Set	\$172.95	
	NEWP7714	Chromosomes Model Making Kit	\$57.95	
	SER1172500	Model - DNA	\$189.95	
	SER1172502	Model - DNA Kit	\$99.95	

AC9S10U01 explain the role of meiosis and mitosis and the function of chromosomes, DNA and genes in heredity and predict patterns of Mendelian inheritance	EISM16082	Meiosis Models - Set of 10	\$259.95	
	EISM0008	Mitosis Model - Set of 8	\$178.45	
AC9S10U02 use the theory of evolution by natural selection to explain past and present diversity and analyse the scientific evidence supporting the theory	WOLA8155K	Deadly Science - Adaptations	\$305.25	
	SER1000031	Plastomount - Evolutionary Milestone Animals	\$314.95	
	SER1080670	Plastomount - Plant Kingdom Set - 32 Specimen	\$388.95	
	EISM0127PMS	Prehistoric Man Skull Model - Set Of 6	\$813.95	



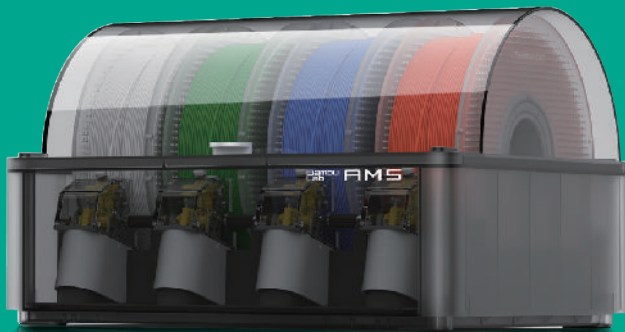
Bring your imagination to life with Bambu Lab 3D printers! With its cutting-edge technology and superior print quality, Bambu Lab 3D printer is perfect for hobbyists, artists, architects, engineers, and anyone looking to explore the exciting world of 3D printing.



Automatic Material System (AMS)

- Support up to 16 Colors connecting multiple AMS units with Bambu Lab X1 series and P1S.
- Intelligent system with filament runout, winding detection and auto filament backup.
- RFID tagging for automatic filament detection*.

*Compatible with Bambu Filaments



Precision at Lightning Speed

Inheriting the proven motion control system from the X1 series, the P1 series reaches a top speed of up to 500 mm/s, accelerating from zero to full speed in just 0.025 seconds, undoubtedly ultra-fast and of high quality.

16 Colours

Enjoy up to 16-color printing with the connection of Bambu Lab Automatic Material System (AMS). Moreover, with its compatibility with specialized support materials, you can experience hassle-free print removal.

All-metal Hotend

Durable materials are used to support long-time 3D printing with filaments including ABS and Carbon Fiber* at high temperatures. It provides accurate and smooth extrusion to achieve high quality printing performance.

*Different nozzle will need to be set up to print Carbon Fiber

Power Loss Recovery

Worry-free from a power cut-off, you can resume the print from where it left off.

Fans with Speed Feedback

The speed feedback sensor monitors the fan's speed ensuring that the fan is able to operate at its optimal speed at all times.

Semi-automatic Belt Tensioning

The tension of the belt is essential for ensuring dimensional accuracy. Resonance frequency identification runs every time to help maintain the correct tension.

Filament Run-out Sensor

Eliminate the problem of empty spools during printing. Change filament when empty and resume.

Liveview & Time-lapse

The built-in chamber camera enables easy print monitoring with Bambu Studio and Bambu Handy, facilitating Time-lapse video creation.

Bambu Lab P1S

A Versatile 3D Printing Workhorse



Body

Build Volume: 256 x 256 x 256 mm³
Chassis: Welded Steel
Shell: Enclosed (Plastic & Glass)

Speed

Max Speed of Toolhead: 500 mm/s
Max Acceleration of Toolhead: 20 m/s²

Toolhead

Hot End: All-Metal
Nozzle: Stainless Steel

Max Hot End Temperature: 300°
Toolhead Cable: Enhanced
toolhead cable with cable chain

Cooling & Filtration

Control Board Fan: Closed Loop Control
Chamber Temperature Regulator Fan:
Closed Loop Control
Auxiliary Part Cooling Fan: Closed Loop

Supported Filaments

PLA, PETG, TPU, PVA, PET: Ideal
ABS, ASA: Ideal
PA, PC: Capable

Bambu Lab X1-Carbon

A leap in 3D printing



Body

Build Volume (W×D×H): 256 × 256 × 256 mm³
Chassis: Steel
Shell: Aluminum & Glass

Speed

Max Speed of Tool Head: 500 mm/s
Max Acceleration of Tool Head: 20 m/s²
Max Hot End Flow: 32 mm³/s @ABS
(Model: 150*150mm single wall; Material:
Bambu ABS; Temperature: 280°)

Hot Bed

Compatible build Plate:

- Bambu Cool Plate
- Bambu High Temperature Plate
- Bambu Textured PEI Plate
- Bambu Smooth PEI Plate

- Bambu Engineering Plate (The other side of
Cool/High Temperature Plate)

Max Build Plate Temperature:
110°@220V, 120°@110V

Toolhead

Hotend: All-Metal
Extruder Gears: Hardened Steel
Nozzle: Hardened Steel
Max Hot End Temperature: 300°
Nozzle Diameter (Included): 0.4 mm
Nozzle Diameter (Optional): 0.2 mm, 0.6 mm,
0.8 mm
Filament Cutter: Yes
Filament Diameter: 1.75 mm

Cooling & Filtration

Part Cooling Fan: Closed Loop Control
Hot End Fan: Closed Loop Control
Control Board Fan: Closed Loop Control
Chamber Temperature Regulator Fan: Closed
Loop Control
Auxiliary Part Cooling Fan: Closed Loop Control
Air Filter: Activated Carbon Filter

Supported Filaments

PLA, PETG, TPU, ABS, ASA, PVA, PET: Ideal
PA, PC: Ideal
Carbon / Glass Fiber
Reinforced Polymer : Ideal

Electrical Requirements

Voltage: 100-240 VAC, 50/60 Hz
Max Power: 1000W@220V, 350W@110V

Sensors

Chamber Monitoring Camera: 1920 × 1080
Included
Filament Run Out Sensor: Yes
Filament Odometry: Optional with AMS
Power Loss Recover : Yes

Electronics

Display: 5-inch 1280 × 720 Touch Screen
Connectivity: Wi-Fi, Bambu-Bus
Storage: 4GB EMMC and Micro SD Card
Reader
Control Interface: Touch Screen, APP, PC
Application
Motion Controller: Dual-Core Cortex M4
Application Processor: Quad ARM A7 1.2 GHz
Neural-Network Processing Unit: 2 Tops

Software

Slicer: Bambu Studio
Support third party slicers which export
standard G-code such as Superslicer,
Prusaslicer and Cura, but certain advanced
features may not be supported.
Slicer Supported OS: MacOS, Windows

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