

CIEC Working Scientifically videos

Oak National Academy website links

Year	Oak unit aligned with (National Curriculum unit)	Oak lesson title	Working scientifically focus	CIEC video
1	Human body parts (Y1 Animals, including humans)	L2: Body parts on the outside	gathering and recording data to help in answering questions.	VIDEO: Working scientifically: Gathering and recording data - Body parts on the outside
		L3: Body parts on the inside	gathering and recording data to help in answering questions.	VIDEO: Working scientifically: Gathering and recording data - Body parts on the inside (same video as above)
		L5: More about sight, smell and sound	identifying and classifying using their observations and ideas to suggest answers to questions	VIDEO: Working scientifically: Identifying and classifying - Sense of smell
2	Uses of everyday materials lesson 4 (Y2 Uses of everyday materials)	L4: Absorbent Materials	recognising that questions can be answered in different ways	VIDEO: Working scientifically: Answering questions in different ways - Absorbency
			observing closely, using simple equipment AND performing simple tests	VIDEO: Working scientifically: Observing closely, using simple equipment - Absorbency
		L5: Stretchy Materials	observing closely, using simple equipment AND performing simple tests	VIDEO: Working scientifically: Performing simple tests - Stretchy materials
			gathering and recording data to help in answering questions.	VIDEO: Working scientifically: Gathering and recording data - Stretchy materials

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3	Introduction to light and shadows (Y3 Light)	L3: Protecting our eyes from the Sun: plan	using different types of scientific enquiries to answer questions planning to set up simple practical enquiries, comparative and fair tests	VIDEO: Working scientifically: Planning practical enquiries - Protecting our eyes
		L4: Protecting our eyes from the Sun: do and review	gathering, recording, classifying and presenting data in a variety of ways to help in answering questions making systematic and careful observations	VIDEO: Working scientifically: Making systematic observations - Protecting our eyes
		L11: Reflected light: do and review	gathering, recording, classifying and presenting data in a variety of ways to help in answering questions recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	VIDEO: Working scientifically: Gather, record and present data - Reflected light
4	Introduction to states of matter and changing states (Y4 States of matter)	L7: Thermometers and data loggers	making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.	VIDEO 1: Working scientifically: Using thermometers to take measurements VIDEO 2: Working scientifically: Using data loggers to take measurements
	Introduction to sound (Y4 Sound)	L8: Distance from sounds: plan	asking relevant questions	VIDEO: Working scientifically: Asking relevant questions - Distance from sounds
		L9: Distance from sounds: do and review	reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions using results to draw simple conclusions	VIDEO: Working scientifically: Reporting on enquiry findings - Distance from sounds

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5	Forces including simple machines (Y5 Forces)	L2: Pushes and pulls	taking measurements, using a range of scientific equipment, with increasing accuracy and precision.	VIDEO: Working scientifically: Taking measurements with accuracy - Pushes and pulls
		L4: Friction: do and review	reporting and presenting findings from enquiries, including conclusions.	VIDEO: Working scientifically: Reporting/presenting findings from enquiries - Friction
		L5: Air resistance: plan	recording data and results of increasing complexity using scientific diagrams and labels.	VIDEO: Working scientifically: Planning enquiries to answer questions - Air resistance
		L6: Air resistance: do and review	planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.	VIDEO: Working scientifically: Taking accurate and repeat measurements - Air resistance
	Properties, changes and separating materials (Y5 Properties and changes of materials)	L8: Recovering insoluble solids	using a range of scientific equipment, with increasing accuracy and precision.	VIDEO: Working scientifically: Using scientific equipment - Recovering insoluble solids
	Human development (Y5 Animals, including humans)	L8: Representing data about human height	recording data and results of increasing complexity using line graphs.	VIDEO: Working scientifically: Recording data using line graphs - Human height
		L9: Analysing data about human height	using test results to make predictions.	VIDEO: Working scientifically: Using test results to make predictions - Human height
6	Light and how it travels (Y6 Light)	L3: Light enters our eyes	recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.	VIDEO: Working scientifically: Using scientific diagrams - Light enters our eyes
		L4: Reflected light		VIDEO: Working scientifically: Using scientific diagrams - Reflected light