

Continuity Curriculum

An online shadow curriculum for students temporarily out of lessons to ensure continuity of learning

Year 8

Autumn Half Term 1

Week Beginning	Lesson Title	Lesson Objective	Online lesson link	Any additional instructions?
8 th September	L14: Flowers and Pollination	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/reproduction-in-plants/lessons/flower-structure?sid-4ea414=mElQa85hxs&sm=0&src=4	
	L15: Fertilisation and Germination	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/reproduction-in-plants/lessons/pollination-and-fertilisation?sid-971e9e=Jtsi2LpBB2&sm=0&src=4	
	L16: Seed Dispersal	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/reproduction-in-plants/lessons/fruit-and-seeds?sid-6489c9=gOWl8LGh6b&sm=0&src=4	
	L17: Asexual Reproduction	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/reproduction-in-plants/lessons/seed-dispersal-practical?sid-6f4c24=-g-hgFKTuc&sm=0&src=4	

15 th September	Lo1: Temperature	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/measuring-temperature?sid-603805=QNU6OVcFVA&sm=0&src=4	
	Lo2: Changing temperature	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/changing-temperature?sid-603805=QNU6OVcFVA&sm=0&src=4	
	Lo3: Energy transfer and temperature	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/energy-and-temperature?sid-a7d753=IBXol283hk&sm=0&src=4	
	Lo4: Investigating heating and cooling	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/mixing-substances-of-different-temperatures?sid-922039=dV7KZCZhua&sm=0&src=4	
22 nd September	Lo5: Heating graphs	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/energy-and-temperature?sid-a7d753=IBXol283hk&sm=0&src=4	
	Lo6: Cooling	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/cooling?sid-b7f5c4=bScAj4Z7SG&sm=0&src=4	
	Lo7: What affects temperature change	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/changing-temperature?sid-540917=4kOzRkNWrn&sm=0&src=4	

	Lo8: Investigating materials capacity to store energy	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/energy-and-substance?sid-7647d3=DT0NxEX2Mo&sm=0&src=4	
29 th September	HALF TERM ASSESSMENT 1		https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/solid-liquid-gas-states-and-changes-of-state/lessons/particle-model-of-substances-in-the-gas-state?sid-b633b1=KN0wCXBW-Q&sm=0&src=4	Revision
	Log: Thermal conduction	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/thermal-conductors?sid-91d08e=6KA5WEIj9N&sm=0&src=4	
	L10: Measuring thermal conductivity	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/thermal-insulators?sid-cdeeo5=JxM9NV-hiB&sm=0&src=4	
	L11: Internal energy	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/energy-and-substance?sid-7647d3=DT0NxEX2Mo&sm=0&src=4	
6 th October	L12: Density changes	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/solid-liquid-gas-states-and-changes-of-state/lessons/boiling-and-condensing?sid-2ac73c=uUjZKeovY2&sm=0&src=4	
	L13: Thermal Convection	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/mixing-substances-of-different-temperatures?sid-922039=dV7KZCZhua&sm=0&src=4	

	L14: Surfaces and thermal stores	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/energy-and-temperature?sid-a7d753=IBXol283hk&sm=0&src=4	
	L15: Designing systems	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/heating-and-cooling/lessons/energy-and-substance?sid-7647d3=DToNxEX2Mo&sm=0&src=4	
13 th October	Revision	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/solid-liquid-gas-states-and-changes-of-state/lessons/solid-and-liquid-states?sid-c4c679=UFiqWEXrNa&sm=0&src=4	
	HALF TERM ASSESSMENT 1 FEEDBACK LESSON		https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/solid-liquid-gas-states-and-changes-of-state/lessons/melting-particle-model?sid-78d234=z6Lty_RQ5z&sm=0&src=4	Revision
	Lo1: Structure of the Earth	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/earths-resources/lessons/structure-of-earth?sid-bfb284=aUfd-x1nj&sm=0&src=4	
	Lo2: Continental drift	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/earths-resources/lessons/tectonic-plates?sid-587750=q-jqbLq7Fk&sm=0&src=4	
	Lo3: Igneous rocks	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/earths-resources/lessons/igneous-rock?sid-7ff711=gNWUTxKXzo&sm=0&src=4	

20 th October	Lo4: Weathering and erosion	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/earths-resources/lessons/types-of-rocks?sid-c543e6=GQJpGbVWwH&sm=0&src=4	
	Lo5: Sedimentary rocks	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/earths-resources/lessons/rocks-and-minerals?sid-a04836=G519GGTmNq&sm=0&src=4	
	Lo6: Metamorphic rocks and the rock cycle	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/earths-resources/lessons/metamorphic-rock?sid-3ecee5=W4eMol8IOe&sm=0&src=4	

Autumn Half Term 2

Week Beginning	Lesson Title	Lesson Objective	Online lesson link	Any additional instructions?
3/11	Fossil Formation	On video	https://continuityoak.org.uk/Lessons?r=1367	
	Fossil Fuels	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/fuels-and-energetics/lessons/comparing-fuels?sid-b54df5=dsiglLoBay&sm=0&src=4#video	

	Extraction and Uses of Fossil Fuels	On video	https://www.youtube.com/watch?v=1dJKvxhGEgA https://www.youtube.com/watch?v=8YHsxXEVB1M https://www.youtube.com/watch?v=zaXBVYrgljo	
10/11	Earth's Atmosphere	On video	https://www.youtube.com/watch?v=WcE36Ha3PtQ https://www.youtube.com/watch?v=loh_-3MoPso	
	Revision	On video	https://continuityoak.org.uk/Lessons?r=1369	
	Revisit Forces and Motion	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/moving-by-force/lessons/measuring-speed-practical?sid-boe82a=5FyaLmTqeh&sm=0&src=4#video	
	Investigating speed	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/moving-by-force/lessons/measuring-speed-practical?sid-boe82a=5FyaLmTqeh&sm=0&src=4#video	

17/11	Calculating speed	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/moving-by-force/lessons/calculating-speed?sid-8b1c12=vHYakM4BUf&sm=0&src=4#video	
	Relative motion	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/moving-by-force/lessons/comparing-the-speeds-of-different-parachutes?sid-54bcad=ogWC1D3wMk&sm=0&src=4#video	
	Speed – distance time graphs	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/moving-by-force/lessons/reading-distance-time-graphs?sid-189665=adP4Xb6SHU&sm=0&src=4#video	
	Revision	On video	https://continuityoak.org.uk/Lessons?r=1175	
24/11	Changing Motion	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/moving-by-force/lessons/changing-speed?sid-d34d71=oV6MOR6A_5&sm=0&src=4#video	Revision
	Drag and streamlining	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/moving-by-force/lessons/streamlining?sid-f636f7=bvoTJ8dUud&sm=0&src=4#video	

	Frictional forces and motion	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/forces/lessons/friction?sid-of011f=cZSTegRXRF&sm=0&src=4#video	
1/12	Falling	On video	https://www.thenational.academy/teachers/programmes/science-secondary-ks3/units/forces/lessons/the-different-kinds-of-force?sid-02cf05=5bG9foQZkv&sm=0&src=4#video	
	Revision	On video	https://continuityoak.org.uk/Lessons?r=1177	
	Revision	On video	https://continuityoak.org.uk/Lessons?r=1177	
	Plants as Organisms	On video	https://thenational.academy/pupils/lessons/plant-nutrition?share=true	
8/12	Photosynthesis	On video	https://thenational.academy/pupils/lessons/photosynthesis?share=true	
	Testing for Starch	On video	https://thenational.academy/pupils/lessons/tests-for-biological-molecules?share=true	

	Plant growth theories	On video	https://thenational.academy/pupils/lessons/the-importance-of-exchange-surfaces-and-transport-systems-in-plants?share=true	
	Leaf adaptations	On video	https://thenational.academy/pupils/lessons/adaptations-of-plants-for-photosynthesis-absorbing-light?share=true	
15/12	Gas exchange and stomata	On video	https://thenational.academy/pupils/lessons/adaptations-of-plants-for-photosynthesis-gas-exchange-and-stomata?share=true	
	Plant roots	On video	https://thenational.academy/pupils/lessons/plant-roots-are-adapted-to-absorb-water-and-mineral-ions?share=true	
	Transport vessels in plants	On video	https://thenational.academy/pupils/lessons/transport-systems-in-plants-xylem-and-transpiration?share=true https://thenational.academy/pupils/lessons/transport-systems-in-plants-phloem-and-translocation?share=true	
	Revision	On video	https://www.bbc.co.uk/bitesize/topics/zvrrd2p/articles/ztd6xbk	

Spring Half Term 1

Week Beginning	Lesson Title	Lesson Objective	Online lesson link	Any additional instructions?
-----------------------	---------------------	-------------------------	---------------------------	-------------------------------------

19 th January	Log: Transpiration	On video	https://youtu.be/5jJLfwTkGe8?si=xvVuzpceVPzuzcW3	
	L10 & L11: Measuring the rate of photosynthesis	On video	https://thenational.academy/pupils/lessons/factors-affecting-the-rate-of-photosynthesis?share=true	
		On video		
	L12: Plants and the atmosphere	On video	https://thenational.academy/pupils/lessons/the-carbon-cycle?share=true	
26 th January	L13: Plants as Producers and the Role of Pollinators	On video	https://youtu.be/bLFBNYUJSOQ?si=xdDabxkNCl1J_okB	
	Lo1: Circuits Lo2: Current in series circuits	On video	https://thenational.academy/pupils/lessons/making-a-series-circuit?share=true	
On video				
2 nd February	Lo3: Potential difference Lo4: Investigating potential difference	On video	https://thenational.academy/pupils/lessons/measuring-voltage?share=true	
		On video		
	Lo5: Power and energy Lo6: Electrical power	On video	https://thenational.academy/pupils/lessons/power-p-equals-w-t?share=true	
On video				
9 th February	MID YEAR ASSESSMENT FEEDBACK			Revision - go through the content learnt and test yourself

				on the knowledge to embed recall
	Lo7: The impact of using domestic electricity	On video	https://thenational.academy/pupils/lessons/danger-from-electric-shock?share=true	
	Lo8: Efficiency of electrical appliances	On video	https://thenational.academy/pupils/lessons/efficiency-in-terms-of-energy-and-power?share=true	

Spring Half Term 2

Week Beginning	Lesson Title	Lesson Objective	Online Lesson Link	Any additional instructions?
	Lo1: Food chains	On video	https://youtu.be/jB6MvrYxr8?si=5o5xTe4MiAiR6xLH	

23 rd February	Lo2: Predator-prey relationships	On video	https://youtu.be/d8-AKhP4VsU?si=f3JFjXNH2Pghq5s4	
	Lo3: Food webs	On video	https://thenational.academy/pupils/lessons/food-webs?share=true	
	Lo4: Bioaccumulation	On video	https://thenational.academy/pupils/lessons/bioaccumulation?share=true	
2 nd March	End of Topic Post Assessment Check Test (Electricity)	On video	https://youtu.be/7JnqnExpQU4?si=kKQgOqqcPyptlowp	Revision - go through the content learnt and test yourself on the knowledge to embed recall
	Lo5: Decay and the importance of microorganisms	On video	https://thenational.academy/pupils/lessons/factors-affecting-the-rate-of-decomposition?share=true	
	Lo6: Carbon cycle	On video	https://youtu.be/va6p8-7iYKI?si=-x5eYolDwAXMKboP	
	Lo7: Classification	On video	https://thenational.academy/pupils/lessons/classification-and-species?share=true	
9 th March	Lo8: Competition	On Video	https://youtu.be/rNmyq8NPgSI?si=Efwrr176X2M6ITfG	
	Lo9: Adaptations	On Video	https://thenational.academy/pupils/lessons/adaptations?share=true	
	Lo10: Natural selection	On Video	https://thenational.academy/pupils/lessons/natural-selection?share=true	

	L11: Evolution and extinction	On Video	https://thenational.academy/pupils/lessons/fossils-show-that-species-change-over-time?share=true	
16 th March	Lo1: Forces and the Effects	On video	https://thenational.academy/pupils/lessons/turning-forces?share=true	
	Lo2: Work done	On video	https://thenational.academy/pupils/lessons/work-done-w-equals-f-s?share=true	
	Lo3: Moments and balance	On video	https://youtu.be/lhNXeivjHkY?si=H_LP9cNaPpa1DFgn	
	Lo4: Simple machines	On video	https://thenational.academy/pupils/lessons/levers?share=true	
23 rd March	Lo5: Hidden forces	On video	https://thenational.academy/pupils/lessons/stretching-springs?share=true	
	Lo6: Hooke's law	On video	https://thenational.academy/pupils/lessons/hookes-law?share=true	
	Lo7: Pressure	On video	https://youtu.be/wCoYfyB2Oac?si=X1zIHeiQS3ph6qNQ	
	Lo8: Applied pressure	On video	https://thenational.academy/pupils/lessons/pressure?share=true	

Summer Half Term 1

Week Beginning	Lesson Title	Lesson Objective	Online Lesson Link	Any additional instructions?
13 th April	Lo1: Acids and bases	On video	https://thenational.academy/pupils/lessons/acids-and-bases?share=true	
	Lo2: Simple indicators Lo3: The pH scale and universal indicator solution	On video	https://thenational.academy/pupils/lessons/ph-scale-and-universal-indicator-solution?share=true	
		On video		
	Lo4: Investigating acids and alkalis	On video	https://thenational.academy/pupils/lessons/practical-red-cabbage-indicator-solution?share=true	
20 th April	Lo5: Acid rain	On video	https://youtu.be/SWcDFE_Nm4w?si=3c6yFWvEabqOrcSG	
		On video		

	Lo6: Reactions of acids with metals 1 Lo7: Reactions of acids with metals 2	On video	https://thenational.academy/pupils/lessons/chemical-reactions-acid-and-metal?share=true	
	Lo8: Reactions of acids with alkalis	On video	https://thenational.academy/pupils/lessons/chemical-reactions-acid-and-metal-carbonate?share=true	
27 th April	Lo9: Antacid investigation part 1	On Video	https://thenational.academy/pupils/lessons/chemical-reactions-neutralisation?share=true	
	Lo10: Antacid investigation part 2	On Video		
	Lo11: Metal oxides and non-metal oxides	On Video	https://thenational.academy/pupils/lessons/metal-oxides-and-non-metal-oxides?share=true	
	End of Topic Post Assessment Check Test (Plants and their Processes)	On Video		Ask your teacher for the post unit test for completion
5 th May	Lo1: Observation from our position on Earth	On video	https://thenational.academy/pupils/lessons/the-spinning-earth?share=true	
	Lo2: Solar System	On video	https://youtu.be/_49dEv5tF8Q?si=7DaHxXji_crV5RoJ	
	Lo3: Gravity	On video	https://thenational.academy/pupils/lessons/gravity?share=true	
	Lo4: Calculating Weight	On video	https://youtu.be/8ujK7ApM1lo?si=l2kjlw7keFjyXpVYY	
11 th May	Lo5: Day and Night	On video		

	Lo6: Year	On video	https://thenational.academy/pupils/lessons/heating-by-the-sun?share=true	
	End of Topic Post Assessment Check Feedback Lesson	On video		Ask your teacher for feedback sheet for common misconceptions
	REVISION	On video		Revision - go through the content learnt and test yourself on the knowledge to embed recall
18 th May	REVISION	On video		Revision - go through the content learnt and test yourself on the knowledge to embed recall
	REVISION	On video		Revision - go through the content learnt and test yourself on the knowledge to embed recall
	REVISION	On video		Revision - go through the content learnt and

				test yourself on the knowledge to embed recall
	REVISION	On video		Revision - go through the content learnt and test yourself on the knowledge to embed recall