

Year 11 Science

Use the resources below to support you when learning from home. You can use this to help catch up on missed work, to get that extra help you might need, revise for exams or to show to your family what you have been learning about at school!

Year 11 - Timeline	Biology Topic	Link to learning
Autumn Term 1a	Inheritance Health & Disease	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-1-ccv3at https://classroom.thenational.academy/lessons/evolution-and-extinction-cnk3gd https://classroom.thenational.academy/lessons/evolution-and-extinction-cnk3gd https://classroom.thenational.academy/lessons/genetic-engineering-part-1-64v3qt https://classroom.thenational.academy/lessons/genetic-engineering-part-2-cngkqd https://classroom.thenational.academy/lessons/classification-ccup2c https://classroom.thenational.academy/lessons/infectious-disease-6wu3ce
Autumn Term 1b	Health & Disease Plants	https://classroom.thenational.academy/lessons/non-communicable-disease-75jk6r https://classroom.thenational.academy/lessons/viral-and-bacterial-disease-68v3at https://classroom.thenational.academy/lessons/immunity-cnk3ad https://classroom.thenational.academy/lessons/heart-disease-61k68d https://classroom.thenational.academy/lessons/vaccines-70u6cc https://classroom.thenational.academy/lessons/antibiotics-6qv62c https://classroom.thenational.academy/lessons/plant-tissue-cnh32t
Spring Term 2a	Plants Co-ordination & Control	https://classroom.thenational.academy/lessons/photosynthesis-cnj36r https://classroom.thenational.academy/lessons/photosynthesis-required-practical-cmrk4t https://classroom.thenational.academy/lessons/limiting-factors-of-photosynthesis-crw68d https://classroom.thenational.academy/lessons/plant-roots-61k3jr https://classroom.thenational.academy/lessons/transport-in-plants-6rr38c https://classroom.thenational.academy/lessons/investigating-transpiration-6tjk0r https://classroom.thenational.academy/lessons/hormonal-responses-cgr3ed
Spring Term 2b	Co-ordination & Control Exchange & Transport	https://classroom.thenational.academy/lessons/controlling-blood-sugar-levels-higher-71k32c https://classroom.thenational.academy/lessons/diabetes-chj6ad https://classroom.thenational.academy/lessons/hormones-in-reproduction-higher-cdhket https://classroom.thenational.academy/lessons/contraception-chh3ct https://classroom.thenational.academy/lessons/exchange-surfaces-and-surface-area-to-volume-ratio-60tp4r https://classroom.thenational.academy/lessons/blood-and-blood-vessels-c8t62c

		https://classroom.thenational.academy/lessons/heart-rate-6cr32r https://classroom.thenational.academy/lessons/the-heart-6ct3jd https://classroom.thenational.academy/lessons/heart-rate-6cr32r https://classroom.thenational.academy/lessons/respiration-71jpce https://classroom.thenational.academy/lessons/anaerobic-respiration-cdjk6d
Summer Term 3a	Ecosystems	https://classroom.thenational.academy/lessons/communities-64vkcc https://classroom.thenational.academy/lessons/sampling-required-practical-1-6rwkjc https://classroom.thenational.academy/lessons/plant-diseases-and-deficiencies-part-2-71h32t https://classroom.thenational.academy/lessons/cycles-c8rkat https://classroom.thenational.academy/lessons/biodiversity-cmrk8r
Summer Term 3b	N/A	

Year 11 - Timeline	Chemistry Topic	Links to learning
Autumn Term 1a	Periodic Table	https://classroom.thenational.academy/lessons/group-1-cdk68r https://classroom.thenational.academy/lessons/group-7-c5h36c https://classroom.thenational.academy/lessons/group-7-displacement-69jp4c https://classroom.thenational.academy/lessons/comparing-the-reactivities-of-group-1-and-7-elements-6tjpac https://classroom.thenational.academy/lessons/displacement-reactions-ionic-equations-c5hp6d
Autumn Term 1b	Rates of Reaction	https://classroom.thenational.academy/lessons/rate-of-reaction-68uk8t https://classroom.thenational.academy/lessons/rate-of-reaction-using-graphs-and-tangents-ccvp4d https://classroom.thenational.academy/lessons/collision-theory-6hjk4c https://classroom.thenational.academy/lessons/planning-an-investigation-to-find-rate-of-reaction-chj64c https://classroom.thenational.academy/lessons/rate-of-reaction-required-practical-part-1-60tp4t https://classroom.thenational.academy/lessons/rate-of-reaction-required-practical-part-2-ccw64c https://classroom.thenational.academy/lessons/effect-of-changing-surface-area-on-rate-of-reaction-c9k32t https://classroom.thenational.academy/lessons/effect-of-changing-temperature-on-rate-of-reaction-6wu6cd

		https://classroom.thenational.academy/lessons/effect-of-changing-pressure-on-rate-of-reaction-6tjker https://classroom.thenational.academy/lessons/catalysts-6rr3ad
Spring Term 2a	Energy changes	https://classroom.thenational.academy/lessons/exothermic-and-endothermic-reactions-cgw32t https://classroom.thenational.academy/lessons/energy-level-diagrams-cqv68e https://classroom.thenational.academy/lessons/calculating-bond-energies-68tker https://classroom.thenational.academy/lessons/review-combined-64u3ar
Spring Term 2b	Fuels	https://classroom.thenational.academy/lessons/crude-oil-and-alkanes-c4w3cd https://classroom.thenational.academy/lessons/fractional-distillation-69k38t https://classroom.thenational.academy/lessons/cracking-crw6at https://classroom.thenational.academy/lessons/uses-of-hydrocarbons-74vkad
Summer Term 3a	Earth Science	https://classroom.thenational.academy/lessons/the-earths-atmosphere-74wk2e https://classroom.thenational.academy/lessons/the-greenhouse-effect-6gup6r https://classroom.thenational.academy/lessons/climate-change-6qu6ce https://classroom.thenational.academy/lessons/pollutants-6rukcc
Summer Term 3b	N/A	

Year 11 - Timeline	Physics Topic	Links to learning
Autumn Term 1a	Forces and their effects Electricity	https://classroom.thenational.academy/lessons/forces-an-introduction-cgwk0d https://classroom.thenational.academy/lessons/resolving-forces-ht-6hgp4r https://classroom.thenational.academy/lessons/forces-and-work-6ngkec https://classroom.thenational.academy/lessons/power-crvk4c https://classroom.thenational.academy/lessons/weight-mass-and-gravity-74t32d https://classroom.thenational.academy/lessons/series-circuits-6wrpad https://classroom.thenational.academy/lessons/parallel-circuits-68w3ct https://classroom.thenational.academy/lessons/series-and-parallel-circuits-69jk8c https://classroom.thenational.academy/lessons/drawing-electrical-circuits-c9hpcc https://classroom.thenational.academy/lessons/charge-and-current-64r36t
Autumn Term 1b	Electricity	https://classroom.thenational.academy/lessons/potential-difference-74tk4c https://classroom.thenational.academy/lessons/electrical-resistance-6wvk4t https://classroom.thenational.academy/lessons/resistance-of-a-wire-69h64d https://classroom.thenational.academy/units/electricity-f083

		https://classroom.thenational.academy/lessons/filament-lamps-71j34r https://classroom.thenational.academy/lessons/diodes-6gtpcr https://classroom.thenational.academy/lessons/light-dependent-resistors-chhk8c https://classroom.thenational.academy/lessons/thermistors-cgr68d https://classroom.thenational.academy/lessons/domestic-electricity-c4rp8t https://classroom.thenational.academy/lessons/the-national-grid-c4rp6t
Spring Term 2a	Static electricity (Separate) Magnetism and the motor effect	https://classroom.thenational.academy/lessons/static-electricity-74t32t https://classroom.thenational.academy/lessons/electric-fields-65hk8c https://classroom.thenational.academy/lessons/magnetism-75jpad https://classroom.thenational.academy/lessons/magnetic-fields-61jkcc https://classroom.thenational.academy/lessons/the-motor-effect-and-left-hand-rule-cctp8c https://classroom.thenational.academy/lessons/f-b-i-l-74uk4d https://classroom.thenational.academy/lessons/dc-motors-74r32c
Spring Term 2b	Electromagnetic Particle model	https://classroom.thenational.academy/lessons/electromagnetism-cgv64r https://classroom.thenational.academy/lessons/electromagnetic-induction-and-generators-6dhkqe https://classroom.thenational.academy/lessons/electromagnetic-devices-ctjk2d https://classroom.thenational.academy/lessons/transformers-cqvp8c https://classroom.thenational.academy/lessons/transformer-equations-75jkae https://classroom.thenational.academy/lessons/particle-models-6tj34r https://classroom.thenational.academy/lessons/density-of-solids-60w3at https://classroom.thenational.academy/lessons/density-required-practical-6hhk2r https://classroom.thenational.academy/lessons/density-of-liquids-64tp8c
Summer Term 3a	Particle model	https://classroom.thenational.academy/lessons/specific-heat-capacity-chhp6r https://classroom.thenational.academy/lessons/specific-heat-capacity-required-practical-69j66r https://classroom.thenational.academy/lessons/heating-and-cooling-substances-c4wp4c https://classroom.thenational.academy/lessons/latent-heat-chjk2r https://classroom.thenational.academy/lessons/gas-pressure-69hp6r https://classroom.thenational.academy/lessons/pressure-in-fluids-64t6ar https://classroom.thenational.academy/lessons/pressure-and-volume-part-1-chhk8c https://classroom.thenational.academy/lessons/atmospheric-pressure-74upct

		https://classroom.thenational.academy/lessons/forces-and-elasticity-part-1-6tjp8c https://classroom.thenational.academy/lessons/forces-and-elasticity-part-2-70vk6t
Forces and elasticity		
Summer Term 3b	N/A	