

Year 11 (Science) Curriculum Map 2021-2022

	Autumn 1 Term	Autumn term 2 Term	Spring and Summer Term
Unit Length	<p><b><u>Biology:</u></b></p> <p>Ecology Oak Resource  <a href="https://teachers.thenational.academy/units/ecology-a6da">https://teachers.thenational.academy/units/ecology-a6da</a></p> <p><b><u>Chemistry:</u></b></p> <p>Quantitative Oak Resource  <a href="https://teachers.thenational.academy/units/quantitative-chemistry-4db7">https://teachers.thenational.academy/units/quantitative-chemistry-4db7</a></p> <p>Chemical Changes Oak resources  <a href="https://teachers.thenational.academy/units/chemical-changes-a5ba">https://teachers.thenational.academy/units/chemical-changes-a5ba</a></p> <p><b><u>Physics:</u></b></p> <p>Atomic Structure Oak Resource  <a href="https://teachers.thenational.academy/units/atomic-structure-d811">https://teachers.thenational.academy/units/atomic-structure-d811</a></p>	<p><b><u>Biology</u></b></p> <p>Inheritance Oak Resource  <a href="https://teachers.thenational.academy/units/inheritance-variation-and-evolution-0224">https://teachers.thenational.academy/units/inheritance-variation-and-evolution-0224</a></p> <p><b><u>Chemistry:</u></b></p> <p>Using Resources Oak Resource  <a href="https://teachers.thenational.academy/units/using-resources-febe">https://teachers.thenational.academy/units/using-resources-febe</a></p> <p>Organic chemistry Oak resource  <a href="https://teachers.thenational.academy/units/organic-chemistry-7c58">https://teachers.thenational.academy/units/organic-chemistry-7c58</a></p> <p><b><u>Physics:</u></b></p> <p>Space TRIPLE ONLY Oak Resource  <a href="https://teachers.thenational.academy/units/space-physics-only-a558">https://teachers.thenational.academy/units/space-physics-only-a558</a></p>	<p><b><u>Revision</u></b></p>
Links to the National curriculum/Assessment Objectives	<p>In year 11, Pupils will be constantly assessed through the use of exam questions, and long answer questions to develop the skills required for the external exam.</p> <p>Preparation for the external exam will begin from the spring term, where closing gaps in knowledge and understanding.</p> <p>Staff will be expected to identify gaps in knowledge and reteach to ensure that pupils gain confidence.</p> <p>Pupils will have two assessment throughout the year. This will be made up of topics taught throughout the years and test the practical skills.</p> <p>AC1 will be paper 2 from 2018-2019</p> <p>AC2 will be Paper 2 from 2020-2021</p> <p>Pupils will be challenged to apply knowledge of understanding to unfamiliar concepts.</p>		

<p>Description of the topic and key learning outcomes (key knowledge and understanding)</p>	<p><b>Biology</b>  <b>Ecology</b>  <u>Lesson 1: Communities</u>  <b>Oak Resources:</b>  <a href="https://classroom.thenational.academy/lessons/communities-64vkcc">https://classroom.thenational.academy/lessons/communities-64vkcc</a>  <u>Lesson 2: Abiotic factors and Biotic factors</u>  <b>Oak Resources:</b>  <a href="https://classroom.thenational.academy/lessons/biotic-and-abiotic-factors-6cw3jc">https://classroom.thenational.academy/lessons/biotic-and-abiotic-factors-6cw3jc</a>  <u>Lesson 3: Adaptations</u>  <b>Oak Resources:</b>  <a href="https://classroom.thenational.academy/lessons/adaptations-6gt64r">https://classroom.thenational.academy/lessons/adaptations-6gt64r</a>  <u>Lesson 4: Sampling RP</u>  <b>Oak Resources:</b>  <a href="https://classroom.thenational.academy/lessons/sampling-required-practical-1-6rwkjc">https://classroom.thenational.academy/lessons/sampling-required-practical-1-6rwkjc</a>  <u>Lesson 5: Using transects RP</u>  <b>Oak Resources:</b>  <a href="https://classroom.thenational.academy/lessons/plant-diseases-and-deficiencies-part-2-71h32t">https://classroom.thenational.academy/lessons/plant-diseases-and-deficiencies-part-2-71h32t</a>  <u>Lesson 5: Biomass</u>  <b>Oak Resources:</b>  <a href="https://classroom.thenational.academy/lessons/biomass-64rpcc">https://classroom.thenational.academy/lessons/biomass-64rpcc</a>  <u>Lesson 6: Food production and security (bio only)</u>  <b>Oak Resources:</b>  <a href="https://classroom.thenational.academy/lessons/food-security-and-farming-6mw3gr">https://classroom.thenational.academy/lessons/food-security-and-farming-6mw3gr</a>  <u>Lesson 7: Biomass</u>  <b>Oak Resources</b>  <a href="https://classroom.thenational.academy/lessons/biomass-64rpcc">https://classroom.thenational.academy/lessons/biomass-64rpcc</a>  <u>Lesson 8: Decomposition (bio only)</u>  <b>Oak Resources:</b>  <a href="https://classroom.thenational.academy/lessons/decay-6crkjd">https://classroom.thenational.academy/lessons/decay-6crkjd</a>  <u>Lesson 9: Decomposition RP (bio only)</u></p>	<p><b>Biology</b>  <b>Inheritance</b>  <u>Lesson 1: Reproduction</u>  <b>Oak Resource:</b>  Sexual and asexual reproduction  Oak Resource:  <a href="https://classroom.thenational.academy/lessons/sexual-vs-asexual-reproduction-ccr64t">https://classroom.thenational.academy/lessons/sexual-vs-asexual-reproduction-ccr64t</a>  <u>Lesson 2: Meiosis</u>  <b>Oak Resource:</b>  <a href="https://classroom.thenational.academy/lessons/meiosis-and-fertilisation-60u3ed">https://classroom.thenational.academy/lessons/meiosis-and-fertilisation-60u3ed</a>  <u>Lesson 3: Advantages and disadvantages of sexual and asexual reproduction (Bio only)</u>  <b>Oak Resource:</b>  <a href="https://classroom.thenational.academy/lessons/advantages-and-disadvantages-of-sexual-and-asexual-reproduction-60w6ce">https://classroom.thenational.academy/lessons/advantages-and-disadvantages-of-sexual-and-asexual-reproduction-60w6ce</a>  <u>Lesson 4: DNA and genome</u>  <b>Oak Resource:</b>  <a href="https://classroom.thenational.academy/lessons/genes-dna-and-chromosomes-71gk6d">https://classroom.thenational.academy/lessons/genes-dna-and-chromosomes-71gk6d</a>  <u>Lesson 5: Nang Chang</u>  <b>Oak Resource:</b>  <a href="https://classroom.thenational.academy/lessons/nancy-chang-chj30t">https://classroom.thenational.academy/lessons/nancy-chang-chj30t</a>  <u>Lesson 6: DNA structure (bio only)</u>  <b>Oak Resource:</b>  <u>Lesson 7: Protein Synthesis (bio only)</u>  <b>Oak Resource:</b>  <a href="https://classroom.thenational.academy/lessons/protein-synthesis-68w62c">https://classroom.thenational.academy/lessons/protein-synthesis-68w62c</a>  <u>Lesson 8: Genetic inheritance</u>  <b>Oak Resource:</b>  <a href="https://classroom.thenational.academy/lessons/genetic-inheritance-higher-c5jk4t">https://classroom.thenational.academy/lessons/genetic-inheritance-higher-c5jk4t</a>  <u>Lesson 9: Inherited disorders</u>  <b>Oak Resource:</b></p>	
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**Oak Resources:**

<https://classroom.thenational.academy/lessons/decay-required-practical-cdj30c>

**Lesson 10: Biodiversity**

**Oak Resources**

<https://classroom.thenational.academy/lessons/biodiversity-cmrk8r>

**Lesson 11: Water Cycle**

**Oak Resource**

<https://classroom.thenational.academy/lessons/cycles-c8rkat>

**Lesson 12: Water Cycle**

**Oak Resource**

<https://classroom.thenational.academy/lessons/cycles-c8rkat>

**Lesson 12: Global warming**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/global-warming-6ww64c>

**Lesson 13: Review**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/review-part-1-6xjkcc>

<https://classroom.thenational.academy/lessons/review-part-2-75k36d>

<https://classroom.thenational.academy/lessons/review-part-3-cnj36d>

**Lesson 13: Maths Skills**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/maths-skills-cmt3gc>

**Lesson 13: Further Reading**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/case-study-dr-beth-penrose-cgw68c>

<https://classroom.thenational.academy/lessons/inherited-disorders-part-1-higher-c8u6ad>

<https://classroom.thenational.academy/lessons/inherited-disorders-part-2-64up8r>

**Lesson 10: Sex determination**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/sex-determination-crup8t>

**Lesson 11: Mendell**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/mendel-cnmpar>

**Lesson 12: Variation**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-1-ccv3at>

**Lesson 13: Variation and Natural Selection**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-2-cmwk8d>

**Lesson 14: Evolution**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/evolution-and-extinction-cnk3gd>

**Lesson 15: Darwin**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/darwin-and-wallace-chh62c>

**Lesson 16: Selective breeding**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/selective-breeding-71hk0e>

**Lesson 17: Genetic engineering**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/genetic-engineering-part-1-64v3gt>

**Chemistry:**

**Quantitative**

**Lesson 1: Conservation of mass**

**Oak Resources:**

**Lesson 2: Balancing equations**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/reacting-masses-ht-only-69jk4d>

**Lesson 3: RAM**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/relative-formula-mass-ft-only-64r3cc>

<https://classroom.thenational.academy/lessons/relative-formula-mass-ht-only-6gtp8d>

**Lesson 4: Conservation of mass**

**Oak Resources:**

**Lesson 5: Calculating Moles (Chemistry Only)**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/moles-and-avogadros-constant-ht-only-chj3jt>

**Lesson 6: Amount of substance in an equation**

**(Chemistry Only)**

**Oak Resources:**

**Lesson 7: Using moles to balance equations**

**(Chemistry Only)**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/balancing-equations-using-moles-ht-only-6gwkar>

**Lesson 8: Limiting Reactants (Chemistry Only)**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/limiting-reactants-6mup4c>

**Lesson 9: Concentration of solution (Chemistry Only)**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/concentration-6rr6cc>

<https://classroom.thenational.academy/lessons/genetic-engineering-part-2-cngkgd>

**Lesson 18: Cloning (bio only)**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/cloning-crrked>

**Lesson 19: Theory of evolution (bio only)**

**Oak Resource:**

**Lesson 20: Speciation (bio only)**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/speciation-6rtkad>

**Lesson 21: The understanding of genetics (bio only)**

**Oak Resource:**

**Lesson 22: Evidence for evolution**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/evidence-for-evolution-part-1-crw3cd>

**Lesson 23: Fossils**

**Oak Resource:**

**Lesson 24: Extinction**

**Oak Resource:**

**Lesson 25: Resistant bacteria**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/evidence-for-evolution-part-2-6thk8d>

**Lesson 26: Classification of living organisms**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/cloning-crrked>

**Lesson 27: Review**

**Oak Resource:**

<https://classroom.thenational.academy/lessons/mid-topic-review-6nj38c>

<https://classroom.thenational.academy/lessons/end-of-topic-review-part-1-cgwp6d>

**Chemistry**

**Lesson 10: Percentage Yield (Chemistry Only)**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/reacting-masses-and-yield-gcse-chemistry-c4wkge>

**Lesson 11: Atom economy (Chemistry Only)**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/atom-economy-6mt3ac>

**Lesson 12: Using concentration of solutions in Mol/dm<sup>3</sup> (Chemistry Only)**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/titration-calculations-chj6cd>

**Lesson 13: Use of the amount of substance in relation to volumes of gases (Chemistry Only)**

**Oak Resources:**

<https://classroom.thenational.academy/lessons/gas-volumes-cgwk6c>

**Lesson 14: Review Learning Combined H/T**

**Oak Resources**

<https://classroom.thenational.academy/lessons/review-ht-only-c9gkgr>

**Lesson 15: Chemistry Only**

**Oak Resources**

<https://classroom.thenational.academy/lessons/review-gcse-chemistry-6gup2c>

**Chemistry**

**Chemical change**

**Lesson 1: Redox Reactions**

**Oak resources**

<https://classroom.thenational.academy/lessons/redox-6hj3gt>

<https://classroom.thenational.academy/lessons/redox-higher-tier-75h68c>

**Lesson 2: Reactivity of metals**

**Oak resources**

<https://classroom.thenational.academy/lessons/investigating-the-reactivity-of-metals-cmu32e>

**Organic chemistry**

**Lesson 1: Crude oil and alkanes**

<https://teachers.thenational.academy/lessons/crude-oil-and-alkanes-c4w3cd>

**Lesson 2: Fractional Distillation**

<https://teachers.thenational.academy/lessons/fractional-distillation-69k38t>

**Lesson 3: Cracking**

<https://teachers.thenational.academy/lessons/cracking-crw6at>

**Lesson 4: Uses of hydrocarbons**

<https://teachers.thenational.academy/lessons/uses-of-hydrocarbons-74vkad>

**Lesson 5: Review 1**

<https://teachers.thenational.academy/lessons/review-part-1-chk64e>

**Lesson 6: Reactions of alkenes**

<https://teachers.thenational.academy/lessons/reactions-of-alkenes-chhp4r>

**Lesson 7: Alcohols (chemistry only)**

<https://teachers.thenational.academy/lessons/alcohols-69j3jc>

**Lesson 8: Properties and combustion of alcohols (chemistry only)**

<https://teachers.thenational.academy/lessons/properties-and-combustion-of-alcohols-crwkad>

**Lesson 9: Carboxylic acids (chemistry only)**

<https://teachers.thenational.academy/lessons/carboxylic-acids-c8u62t>

**Lesson 10: Natural and addition polymers**

<https://teachers.thenational.academy/lessons/natural-and-addition-polymers-c8t3et>

**Lesson 11: Condensation polymers (chemistry only)**

<https://teachers.thenational.academy/lessons/condensation-polymers-70rkgd>

**Lesson 12: Review 2**

<https://teachers.thenational.academy/lessons/review-part-2-cru30e>

**Lesson 13: Review 3**

### **Lesson 3: The reactivity Series**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/displacement-reactions-of-metals-c5hk6r>

### **Lesson 4: Neutralisation of acids and salt production**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/acid-base-reactions-cgt66t>

<https://classroom.thenational.academy/lessons/acid-base-reactions-cgt66t>

<https://classroom.thenational.academy/lessons/observations-from-acid-base-reactions-68w36d>

### **Lesson 5: Acid base ionic Equations**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/acid-base-ionic-equations-74r62c>

### **Lesson 6: Soluble Salts**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/making-salts-crw68c>

### **Lesson 7: The pH scale and neutralisation**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/acids-alkalis-and-the-ph-scale-chj38c>

### **Lesson 8: Titrations (Chemistry Only)**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/titrations-6gv3et>

<https://classroom.thenational.academy/lessons/processing-titration-results-6crp6e>

### **Lesson 9: Strong and weak acids (HT)**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/strong-and-weak-acids-ctk34d>

### **Lesson 10: Electrolysis**

#### **Oak resources**

<https://teachers.thenational.academy/lessons/review-part-3-6wu62d>

## **Chemistry**

### **Using Resources**

#### **Lesson 1: Finite Resources**

##### **Oak resources**

<https://classroom.thenational.academy/lessons/finite-resources-6xh6ac>

#### **Lesson 2: Rusting**

##### **Oak resources**

<https://classroom.thenational.academy/lessons/rusting-6nhk6c>

#### **Lesson 3:**

##### **Oak resources: Alloys**

<https://classroom.thenational.academy/lessons/alloys-64v34e>

#### **Lesson 4: Recycling**

##### **Oak resources**

<https://classroom.thenational.academy/lessons/the-importance-of-recycling-75gk2t>

#### **Lesson 5: LCA**

##### **Oak resources**

<https://classroom.thenational.academy/lessons/life-cycle-assessments-6dhkae>

#### **Lesson 6: Phytomining and bioleaching**

##### **Oak resources**

<https://classroom.thenational.academy/lessons/phytomining-and-bioleaching-70tp4c>

#### **Lesson 7: Polymers**

##### **Oak resources**

<https://classroom.thenational.academy/lessons/polymers-6hgker>

#### **Lesson 8: Glass and ceramics**

##### **Oak resources**

<https://classroom.thenational.academy/lessons/glass-ceramics-and-composites-c4w3ae>

#### **Lesson 9: Safe water**

##### **Oak resources**

<https://classroom.thenational.academy/lessons/electrolysis-of-solutions-cmv3ge>

### **Lesson 11: Electrolysis of molten ionic compounds**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/electrolysis-of-molten-compounds-cgw66t>

### **Lesson 12: Using electrolysis to extract metals**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/extraction-of-aluminium-68w38r>

<https://classroom.thenational.academy/lessons/extraction-of-aluminium-68w38r>

### **Lesson 13: Electrolysis of Aqueous materials**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/electrolysis-of-solutions-cmv3ge>

### **Lesson 14: Representation of reactions at electrode as a half equation (HT)**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/developing-an-electrolysis-hypothesis-6rw3gd>

<https://classroom.thenational.academy/lessons/electrolysis-half-equations-c8r6ar>

### **Lesson 15: Review learning**

#### **Oak Resources:**

<https://classroom.thenational.academy/lessons/reactivity-and-acid-base-reactions-review-60r32d>

<https://classroom.thenational.academy/lessons/chemical-change-higher-tier-review-cct6cd>

### **Lesson 16: Working Scientifically: Writing a method**

#### **Oak Resources:**

<https://classroom.thenational.academy/lessons/writing-a-method-crv32c>

## **Physics**

<https://classroom.thenational.academy/lessons/water-safe-to-drink-60r3gc>

### **Lesson 10: Potable water RP**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/required-practical-on-potable-water-6ngkjd>

### **Lesson 11: Water treatment**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/wastewater-treatment-cmup4e>

### **Lesson 12: Haber Process**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/making-ammonia-and-the-haber-process-70rkat>

### **Lesson 13: Economics of the Haber process**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/the-economics-of-the-haber-process-74r32d>

### **Lesson 14: Making fertilizer in the lab v in industry**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/making-fertilisers-in-the-lab-and-in-industry-6wrk6e>

### **Lesson 15: Review**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/review-lesson-68v3je>

### **Lesson 16: Review Chemistry Only**

#### **Oak resources**

<https://classroom.thenational.academy/lessons/review-lesson-chemistry-content-6wwkgd>

### **Lesson 17: Exam skills**

<https://classroom.thenational.academy/lessons/exam-skills-compare-and-evaluate-c9k6at>

#### **Oak resources**

### **Lesson 18: Further Reading**

#### **Oak resources**

## **Atomic Structure**

### **Lesson 1: Atoms and their structure**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/exploring-inside-an-atom-c9h6ac>

### **Lesson 2: Isotopes**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/isotopes-and-ionisation-crrk8c>

### **Lesson 3: The development of the model of the atom**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/history-of-atomic-models-c8wk2t>

### **Lesson 4: Radioactive decay**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/radioactivity-6tgkjc>

### **Lesson 5: Decay equation (Physics Only)**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/decay-equations-crup6d>

### **Lesson 6: Half life**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/activity-and-half-life-ht-c9jk6d>

### **Lesson 7: Radioactive contamination**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/uses-and-hazards-of-radiation-combined-science-only-74uk6d>

### **Lesson 8: Background radiation (Physics Only)**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/hazards-of-radiation-physics-only-c5j6ad>

### **Lesson 9: Uses of nuclear radiation**

#### **Oak Resources**

<https://classroom.thenational.academy/lessons/uses-of-radiation-physics-only-cdh3gt>

<https://classroom.thenational.academy/lessons/case-study-kitty-hach-darrow-6mu36d>

## **Physics**

### **Space and beyond**

#### **Lesson 1: Solar System**

##### **Oak Resources:**

<https://classroom.thenational.academy/lessons/solar-system-6dh36r>

#### **Lesson 2: Orbital motion**

##### **Oak Resources:**

<https://classroom.thenational.academy/lessons/orbits-cmv6ad>

#### **Lesson 3: Life Cycle of a star**

##### **Oak Resources:**

<https://classroom.thenational.academy/lessons/life-cycle-of-a-star-6ctket>

#### **Lesson 4: Stars and elements**

##### **Oak Resources:**

<https://classroom.thenational.academy/lessons/element-synthesis-65gked>

#### **Lesson 5: Doppler Effect**

##### **Oak Resources:**

<https://classroom.thenational.academy/lessons/origins-of-the-universe-70rp8t>

#### **Lesson 6: CMB**

##### **Oak Resources:**

<https://classroom.thenational.academy/lessons/cosmic-microwave-background-radiation-cmbr-74tkcd>

#### **Lesson 7: Review**

##### **Oak Resources:**

<https://classroom.thenational.academy/lessons/review-space-ctgk2e>

#### **Lesson 8: Further Reading**

##### **Oak Resources:**

<https://classroom.thenational.academy/lessons/case-study-schandrasekhar-cmvkcc>



	<p><b>Lesson 10: Nuclear Fission and Fusion (Physics Only)</b>  <b>Oak Resources</b>  <a href="https://classroom.thenational.academy/lessons/fission-and-fusion-70tk6c">https://classroom.thenational.academy/lessons/fission-and-fusion-70tk6c</a></p> <p><b>Lesson 11: Review</b>  <a href="https://classroom.thenational.academy/lessons/p4-atomic-structure-review-part-1-6rv38d">https://classroom.thenational.academy/lessons/p4-atomic-structure-review-part-1-6rv38d</a></p>		
Related Concepts (that are revisited)	<p><b>BIOLOGY</b>  Adaptations (Year 8)  Competition (Year 8)  Natural Selection (Year 8)  Extinction (Year 8)  <b>CHEMISTRY</b>  Elements, compounds and mixtures (Year 8)  Separation techniques (Year 7)  Chemical Reactions (Year 7)  <b>PHYSICS</b>  Pressure in gases year 7  Forces (Year 7)</p>	<p><b>BIOLOGY</b>  Adaptations (Year 8)  Competition (Year 8)  Natural Selection (Year 8)  Extinction (Year 8)  <b>CHEMISTRY</b>  Elements, compounds and mixtures (Year 8)  Separation techniques (Year 7)  Chemical Reactions (Year 7)  <b>PHYSICS</b>  Pressure in gases year 7  Forces (Year 7)</p>	
Skills being taught	<p><b>Mathematical Skills:</b>  Interpretation of data  Drawing graphs and tables  Analysing data  <b>Literacy Skills</b>  Key terms taught using decode it  Written communication  Oral Communication</p>	<p><b>Mathematical Skills:</b>  Interpretation of data  Drawing graphs and tables  Analysing data  <b>Literacy Skills</b>  Key terms taught using decode it  Written communication  Oral Communication</p>	
Milestone assessments	<p>Mini assessments to identify gaps in knowledge  Quick quizzes  Retrieval practice in DIN  Lots of practice of exam questions in the lessons</p>	<p>Mini assessments to identify gaps in knowledge  Quick quizzes  Retrieval practice in DIN  Lots of practice of exam questions in the lessons</p>	

Wider reading	GCSE Bitesize Exposure to reading for learning in the lesson So COOL	GCSE Bitesize Exposure to reading for learning in the lesson So COOL	
Literacy programme	Key terms taught Opportunities to read Science material in lessons Independent writing	Key terms taught Opportunities to read Science material in lessons Independent writing	
Homework	Exam question Retrieval questions, Quick fire Key term definitions	Exam question Retrieval questions, Quick fire Key term definitions	
Link to resources: PPT, Kos and MTP	<b><u>Biology</u></b> U:\Staff Drive\By Department\FACULTY\SCIENCE\YEAR 11\Autumn\Year 11 Biology Autumn <b><u>Chemistry</u></b> U:\Staff Drive\By Department\FACULTY\SCIENCE\YEAR 11\Autumn\Year 11 chemistry Autumn <b><u>Physics</u></b> U:\Staff Drive\By Department\FACULTY\SCIENCE\YEAR 11\Autumn\Year 11 Physics Autumn		