

Curriculum Map for year 9 (biology)

Year 9

Lesson number and title	Textbook pages (if using the textbook, make notes from the information and answer the questions) “D” stands for double science textbook “T” stands for triple science textbook	Remote learning links (if using the lesson from Oak National Academy, watch the video while making notes and complete the worksheet)
1 The human digestive system	D: 36-39 T: 36-39	https://classroom.thenational.academy/lessons/digestion-cnk66c
2 The chemistry of food	D: 40-41 T: 40-41	https://www.bbc.co.uk/bitesize/guides/zcttv9q/revision/1 https://www.bbc.co.uk/bitesize/guides/zcttv9q/revision/2
3 Required Practical 4: food tests	D: 40-41 T: 40-41	https://classroom.thenational.academy/lessons/food-tests-61h3cd

	(Use the website if possible as there is not much information on this practical in the textbook)	
4 Catalysts and enzymes	D: 42-43 T: 42-43	https://www.bbc.co.uk/bitesize/guides/zcttv9q/revision/5
5 The effect of temperature on enzyme activity	D: 44-45 T: 44-45	https://classroom.thenational.academy/lessons/investigating-enzymes-60w64t
6 Required Practical 5: investigating the effect of pH on amylase activity., part 1	D: 44-45 T: 44-45 (Use the website if possible as there is not much information on this practical in the textbook)	https://classroom.thenational.academy/lessons/ph-and-enzymes-part-1-cru3jt
7 Required Practical 5: investigating the effect of pH on	D: 44-45 T: 44-45 (Use the website if possible as there is not much information on this practical in the textbook)	https://classroom.thenational.academy/lessons/ph-and-enzymes-part-2-75h3gr

amylase activity., part 2		
8 Enzymes in the digestive system	D: 46-47 T: 46-47	https://classroom.thenational.academy/lessons/digestive-enzymes-6dgkgr
9 Making digestion efficient	D: 48-49 T: 48-49	https://www.bbc.co.uk/bitesize/guides/zcttv9q/revision/8
10 The blood	D: 52-53 T: 52-53	https://classroom.thenational.academy/lessons/blood-and-blood-vessels-c8t62c
11 Blood vessels	D: 54-55 T: 54-55	
12 The heart	D: 56-57 T: 56-57	https://classroom.thenational.academy/lessons/the-heart-6ct3jd
13 Coronary heart disease	D: 56-57 T: 56-57	https://classroom.thenational.academy/lessons/heart-disease-61k68d

14 Helping the heart	D: 58-59 T: 58-59	https://www.bbc.co.uk/bitesize/guides/zqnsrwx/revision/10 https://www.bbc.co.uk/bitesize/guides/zqnsrwx/revision/11
15 Breathing and gas exchange	D: 60-61 T: 60-61	https://classroom.thenational.academy/lessons/the-lungs-ccu3ge
16 Tissues and organs in plants	D: 62-63 T: 62-63	https://classroom.thenational.academy/lessons/plant-tissue-cnh32t
17 Transport systems in plants	D: 64-65 T: 64-65	https://classroom.thenational.academy/lessons/transport-in-plants-6rr38c
18 Evaporation and transpiration	D: 66-67 T: 66-67	
19 Measuring transpiration and factors affecting transpiration	D: 68-69 T: 68-69	https://classroom.thenational.academy/lessons/investigating-transpiration-6tjk0r

Curriculum Map for year 10 double science (biology)

Lesson number and title	Textbook pages (if using the textbook, make notes and answer the questions)	Remote learning links (if using the lesson from Oak National Academy, watch the video while making notes and complete the worksheet)
1 Types of reproduction	162-3	https://classroom.thenational.academy/lessons/sexual-vs-asexual-reproduction-ccr64t`
2 Cell division in sexual reproduction (meiosis)	p180-1	https://classroom.thenational.academy/lessons/meiosis-and-fertilisation-60u3ed
3 Inheritance in action	p168-9	https://classroom.thenational.academy/lessons/genetic-inheritance-higher-c5jk4t

4 More about genetics	p170-1	https://classroom.thenational.academy/lessons/sex-determination-crup8t
5 Inherited disorders	p172-3	https://classroom.thenational.academy/lessons/inherited-disorders-part-1-higher-c8u6ad
6 Screening for genetic disorders	p174-5	https://classroom.thenational.academy/lessons/inherited-disorders-part-2-64up8r
7 Variation	p178-9	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-1-ccv3at
8 Evolution by Natural Selection	p180-1	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-2-cmwk8d
9 Evidence for evolution: fossils	p190-195	https://classroom.thenational.academy/lessons/evidence-for-evolution-part-1-crw3cd
10 Evidence for evolution: antibiotic-resistant bacteria	p 196-7	https://classroom.thenational.academy/lessons/evidence-for-evolution-part-2-6thk8d
11 Classification	p198-9	https://classroom.thenational.academy/lessons/classification-ccup2c
12 New systems of classification	p200-1	https://www.bbc.co.uk/bitesize/guides/z9mcqhv/revision/2

13 Selective breeding	p182-3	https://classroom.thenational.academy/lessons/selective-breeding-71hk0e
14 Genetic engineering	p184-5	https://classroom.thenational.academy/lessons/genetic-engineering-part-1-64v3gt
15 Ethics of genetic engineering	p186-7	https://classroom.thenational.academy/lessons/genetic-engineering-part-2-cngkgd

Curriculum Map for year 10 triple science (biology)

Lesson number and title	Textbook pages (if using the textbook, make notes and answer the questions)	Remote learning links (if using the lesson from Oak National Academy, watch the video while making notes and complete the worksheet)
1 Types of reproduction	p196-7	https://classroom.thenational.academy/lessons/sexual-vs-asexual-reproduction-ccr64t`
2 Cell division in sexual reproduction (meiosis)	p198-9	https://classroom.thenational.academy/lessons/meiosis-and-fertilisation-60u3ed
3 <i>The best of both worlds (Advantages and Disadvantages of sexual and asexual reproduction)</i>	p200-1	https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/3 https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/4

4 DNA and the genome	p202-3	https://classroom.thenational.academy/lessons/genes-dna-and-chromosomes-71gk6d
5 DNA structure and protein synthesis (Triple only)	p204-5	https://classroom.thenational.academy/lessons/protein-synthesis-68w62c
6 Gene expression and mutation (Triple only)	p206-7	https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/9 https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/10
7 The history of genetics (Triple only)	p234-5	https://classroom.thenational.academy/lessons/mendel-cnmpar
8 Inheritance in action	p208-9	https://classroom.thenational.academy/lessons/genetic-inheritance-higher-c5jk4t
9 More about genetics	p210-11	https://classroom.thenational.academy/lessons/sex-determination-crup8t
10 Inherited disorders	p212-3	https://classroom.thenational.academy/lessons/inherited-disorders-part-1-higher-c8u6ad
11 Screening for genetic disorders	p214-5	https://classroom.thenational.academy/lessons/inherited-disorders-part-2-64up8r

12 Variation	p218-9	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-1-ccv3at
13 Evolution by Natural Selection	p220-1	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-2-cmwk8d
14 <i>Theories of Evolution</i>	p236-7	https://classroom.thenational.academy/lessons/darwin-and-wallace-chh62c
15 <i>Accepting Darwin's ideas</i>	p238-9	https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/3 https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/4
16 <i>Evolution and speciation</i>	p240-1	https://classroom.thenational.academy/lessons/speciation-6rtkad
17 Evidence for evolution: fossils	p242-6	https://classroom.thenational.academy/lessons/evidence-for-evolution-part-1-crw3cd
18 Evidence for evolution: antibiotic-resistant bacteria	p248-9	https://classroom.thenational.academy/lessons/evidence-for-evolution-part-2-6thk8d
19 Classification	p250-1	https://classroom.thenational.academy/lessons/classification-ccup2c
20 New systems of classification	p252-3	https://www.bbc.co.uk/bitesize/guides/z9mcqhv/revision/2

21 Selective breeding	p222-3	https://classroom.thenational.academy/lessons/selective-breeding-71hk0e
22 Genetic engineering	p224-5	https://classroom.thenational.academy/lessons/genetic-engineering-part-1-64v3gt
23 Ethics of genetic engineering	p230-1	https://classroom.thenational.academy/lessons/genetic-engineering-part-2-cngkgd
24 <i>Cloning</i>	p226-7	https://classroom.thenational.academy/lessons/cloning-crrked
25 <i>Adult cell cloning</i>	p228-9	https://www.bbc.co.uk/bitesize/guides/zsg6v9q/revision/9

Curriculum Map for year 11 triple science (biology)

Lesson number and title	Textbook pages (if using the textbook, make notes and answer the questions)	Remote learning links (if using the lesson from Oak National Academy, watch the video while making notes and complete the worksheet)
1 Variation	p218-9	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-1-ccv3at
2 Evolution by Natural Selection	p220-1	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-2-cmwk8d https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/1
3 <i>Theories of Evolution</i> (Triple only)	p236-7	https://classroom.thenational.academy/lessons/darwin-and-wallace-chh62c https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/2
4 <i>Accepting Darwin's ideas</i>	p238-9	https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/3

(Triple only)		https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/4
5 Evolution and speciation (Triple only)	p240-1	https://classroom.thenational.academy/lessons/speciation-6rtkad https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/5 https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/6
6 Evidence for evolution: fossils and extinction	p242-6	https://classroom.thenational.academy/lessons/evidence-for-evolution-part-1-crw3cd https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/7 https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/8 https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/10
7 Evidence for evolution: antibiotic-resistant bacteria	p248-9	https://classroom.thenational.academy/lessons/evidence-for-evolution-part-2-6thk8d https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/9

8 Classification	p250-1	https://classroom.thenational.academy/lessons/classification-ccup2c https://www.bbc.co.uk/bitesize/guides/z9mcqhv/revision/1
9 New systems of classification	p252-3	https://www.bbc.co.uk/bitesize/guides/z9mcqhv/revision/2
10 Selective breeding	p222-3	https://classroom.thenational.academy/lessons/selective-breeding-71hk0e
11 Genetic engineering	p224-5	https://classroom.thenational.academy/lessons/genetic-engineering-part-1-64v3gt
12 Ethics of genetic engineering	p230-1	https://classroom.thenational.academy/lessons/genetic-engineering-part-2-cngkgd
13 Cloning (Triple only)	p226-7	https://classroom.thenational.academy/lessons/cloning-crrked
14 Adult cell cloning (Triple only)	p228-9	https://www.bbc.co.uk/bitesize/guides/zsg6v9q/revision/9

Curriculum Map for year 11 double science (biology)

Lesson number and title	Textbook pages (if using the textbook, make notes and answer the questions)	Remote learning links (if using the lesson from Oak National Academy, watch the video while making notes and complete the worksheet)
1 Variation	p178-9	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-1-ccv3at
2 Evolution by Natural Selection	p180-1	https://classroom.thenational.academy/lessons/variation-and-natural-selection-part-2-cmwk8d
3 Evidence for evolution: fossils	p190-195	https://classroom.thenational.academy/lessons/evidence-for-evolution-part-1-crw3cd
4 Evidence for evolution: antibiotic-resistant bacteria	p 196-7	https://classroom.thenational.academy/lessons/evidence-for-evolution-part-2-6thk8d
5 Classification	p198-9	https://classroom.thenational.academy/lessons/classification-ccup2c

6 New systems of classification	p200-1	https://www.bbc.co.uk/bitesize/guides/z9mcqhv/revision/2
7 Selective breeding	p182-3	https://classroom.thenational.academy/lessons/selective-breeding-71hk0e
8 Genetic engineering	p184-5	https://classroom.thenational.academy/lessons/genetic-engineering-part-1-64v3gt
9 Ethics of genetic engineering	p186-7	https://classroom.thenational.academy/lessons/genetic-engineering-part-2-cngkgd