

### Curriculum Map for year 9 (biology)

Look in your exercise for the title of the previous lesson to work out the lesson(s) you are missing.

<b>Lesson number and title</b>	<b>Textbook pages</b>  (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	<b>Remote learning links</b>  (if using the lesson from Oak National Academy, watch the video while making notes and complete the worksheet)
1 The human digestive system	36-39	<a href="https://classroom.thenational.academy/lessons/digestion-cn66c">https://classroom.thenational.academy/lessons/digestion-cn66c</a>
2 The chemistry of food	40-41	<a href="https://www.bbc.co.uk/bitesize/guides/zcttv9q/revision/1">https://www.bbc.co.uk/bitesize/guides/zcttv9q/revision/1</a>  <a href="https://www.bbc.co.uk/bitesize/guides/zcttv9q/revision/2">https://www.bbc.co.uk/bitesize/guides/zcttv9q/revision/2</a>
3 Required Practical 4: food tests	40-41	<a href="https://classroom.thenational.academy/lessons/food-tests-61h3cd">https://classroom.thenational.academy/lessons/food-tests-61h3cd</a>

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

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

14 Helping the heart	58-59	<a href="https://www.bbc.co.uk/bitesize/guides/zqnsrwx/revision/10">https://www.bbc.co.uk/bitesize/guides/zqnsrwx/revision/10</a> <a href="https://www.bbc.co.uk/bitesize/guides/zqnsrwx/revision/11">https://www.bbc.co.uk/bitesize/guides/zqnsrwx/revision/11</a>
15 Breathing and gas exchange	60-61	<a href="https://classroom.thenational.academy/lessons/the-lungs-ccu3ge">https://classroom.thenational.academy/lessons/the-lungs-ccu3ge</a>
16 Tissues and organs in plants	62-63	<a href="https://classroom.thenational.academy/lessons/plant-tissue-cnh32t">https://classroom.thenational.academy/lessons/plant-tissue-cnh32t</a>
17 Transport systems in plants	64-65	<a href="https://classroom.thenational.academy/lessons/transport-in-plants-6rr38c">https://classroom.thenational.academy/lessons/transport-in-plants-6rr38c</a>
18 Evaporation and transpiration	66-67	
19 Measuring transpiration and factors affecting transpiration	68-69	<a href="https://classroom.thenational.academy/lessons/investigating-transpiration-6tjk0r">https://classroom.thenational.academy/lessons/investigating-transpiration-6tjk0r</a>
20 Photosynthesis	124-125	<a href="https://classroom.thenational.academy/lessons/photosynthesis-cnj36r">https://classroom.thenational.academy/lessons/photosynthesis-cnj36r</a>

21 Measuring the rate of photosynthesis part 1 (required practical)	126-127	<p>Complete the photosynthesis required practical on the science practical simulator:</p> <p><a href="https://science-practical-simulator.web.app/">https://science-practical-simulator.web.app/</a> (password: RM548)</p> <p><a href="https://classroom.thenational.academy/lessons/photosynthesis-required-practical-cmrk4t">https://classroom.thenational.academy/lessons/photosynthesis-required-practical-cmrk4t</a></p>
22 Measuring the rate of photosynthesis part 2 (required practical)	126-127	<p><a href="https://classroom.thenational.academy/lessons/photosynthesis-required-practical-results-c4tp4t">https://classroom.thenational.academy/lessons/photosynthesis-required-practical-results-c4tp4t</a></p> <p><a href="https://science-practical-simulator.web.app/">https://science-practical-simulator.web.app/</a> (password: RM548)</p>
23 how plants use glucose	128-129	

24 Making the most of photosynthesis	130-131	<a href="https://classroom.thenational.academy/lessons/manipulating-factors-of-photosynthesis-ht-ccwkjt">https://classroom.thenational.academy/lessons/manipulating-factors-of-photosynthesis-ht-ccwkjt</a>
25 Aerobic Respiration	134-135	<a href="https://classroom.thenational.academy/lessons/respiration-71jpce">https://classroom.thenational.academy/lessons/respiration-71jpce</a>
26 The response to exercise	136-137	
27 Anaerobic respiration	138-139	<a href="https://classroom.thenational.academy/lessons/anaerobic-respiration-cdgk6d">https://classroom.thenational.academy/lessons/anaerobic-respiration-cdgk6d</a>
28 Metabolism and the liver	140-141	<a href="https://classroom.thenational.academy/lessons/metabolism-6rw3gc">https://classroom.thenational.academy/lessons/metabolism-6rw3gc</a>

### Curriculum Map for year 10 double science (biology)

Look in your exercise for the title of the previous lesson to work out the lesson(s) you are missing.

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

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



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

## Curriculum Map for year 10 triple science (biology) – term 6 only

Look in your exercise for the title of the previous lesson to work out the lesson(s) you are missing.

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)
<i>1 Growing bacteria in the lab</i>	78-79	Complete the microbiology required practical on the science practical simulator  <a href="https://science-practical-simulator.web.app/">https://science-practical-simulator.web.app/</a> (password: RM548)
<i>4 Preventing bacterial growth</i>	80-81	
<i>3 More about plant diseases</i>	92-93	<a href="https://classroom.thenational.academy/lessons/plant-diseases-and-deficiencies-part-2-cnjp6r">https://classroom.thenational.academy/lessons/plant-diseases-and-deficiencies-part-2-cnjp6r</a>
<i>4 Plant defence responses</i>	94-95	<a href="https://classroom.thenational.academy/lessons/plant-diseases-and-deficiencies-part-1-61jpcd">https://classroom.thenational.academy/lessons/plant-diseases-and-deficiencies-part-1-61jpcd</a>
<i>5 Making monoclonal antibodies</i>	106-107	<a href="https://classroom.thenational.academy/lessons/monoclonal-antibodies-6djp2t">https://classroom.thenational.academy/lessons/monoclonal-antibodies-6djp2t</a>
<i>6 Using monoclonal antibodies</i>	108-109	
<i>7 The best of both worlds (Advantages and Disadvantages)</i>	200-201	<a href="https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/3">https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/3</a>

<i>of sexual and asexual reproduction)</i>		<a href="https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/4">https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/4</a>
<i>8 DNA structure and protein synthesis</i> <i>(Triple only)</i>	204-205	<a href="https://classroom.thenational.academy/lessons/protein-synthesis-68w62c">https://classroom.thenational.academy/lessons/protein-synthesis-68w62c</a>
<i>9 Gene expression and mutation</i> <i>(Triple only)</i>	206-207	<a href="https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/9">https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/9</a> <a href="https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/10">https://www.bbc.co.uk/bitesize/guides/z9pkmsg/revision/10</a>
<i>10 The history of genetics</i> <i>(Triple only)</i>	234-235	<a href="https://classroom.thenational.academy/lessons/mendel-cnhtar">https://classroom.thenational.academy/lessons/mendel-cnhtar</a>