



Work for individual students not attending school

Half Term 2: October to December

Pupils who are absent should select the lesson activity that they are up to

- Click the link and watch the video.
- Complete the tasks as you watch. Write your answers on paper for all the tasks set.
- Complete the exit quiz by clicking the green circles at the bottom of the screen. ●●●●●
- Submit your work to your teacher when you return to school.

Date (week commencing)	Lesson	Focus/Topic/Theme	Hyper link to Activity
2/11/20	1	The Lungs	https://classroom.thenational.academy/lessons/the-lungs-ccu3ge?activity=video&step=1
	2	Blood Vessels	https://classroom.thenational.academy/lessons/blood-and-blood-vessels-c8t62c?activity=video&step=1
9/11/20	3	The Heart	https://classroom.thenational.academy/lessons/the-heart-6ct3jd?activity=video&step=1
	4	Heart Disease	https://classroom.thenational.academy/lessons/heart-disease-61k68d?activity=video&step=1
16/11/20	5	Heart Rate	https://classroom.thenational.academy/lessons/heart-rate-6cr32r?activity=video&step=1
	6	Lifestyle and Health	https://classroom.thenational.academy/lessons/non-communicable-disease-75jk6r?activity=video&step=1
23/11/20	7	Cancer	https://classroom.thenational.academy/lessons/cancer-c8rp8d?activity=video&step=1
	8	Infectious Disease	https://classroom.thenational.academy/lessons/infectious-disease-6wu3ce?activity=video&step=1
30/11/20	9	Viral and Bacterial Disease	https://classroom.thenational.academy/lessons/viral-and-bacterial-disease-68v3at?activity=video&step=1
	10	Fungal and protist Disease	https://classroom.thenational.academy/lessons/fungal-and-protist-disease-6xk3gt?activity=video&step=1
7/12/20	11	Immunity	https://classroom.thenational.academy/lessons/immunity-cnk3ad?activity=video&step=1
	12	Vaccines	https://classroom.thenational.academy/lessons/vaccines-70u6cc?activity=video&step=1

Deyes High School

Remote Learning

Engage, Enable and Empower



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LEARNING TRUST

Year 10 Combined Science Biology

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Date (week commencing)	Lesson	Focus/Topic/Theme	Hyper link to Activity
14/12/20	9	<p>Revision: Revision: Select and complete revision activities below. GCSE Bitesize: Using the web link read the revision notes and watch the video. https://www.bbc.co.uk/bitesize/guides/zhnk7ty/revision/1 SENECA: Use the web link to work through the revision notes and attempt questions at the end of the topic. https://app.senecalearning.com/classroom/course/891f0540-1d79-11e8-a6da-15f18bba751c</p> <p>Create revision flashcards using the knowledge organisers to help you with recall and understanding of the topic.</p>	

Year 10 Organisation – Circulatory System Unit 2

2.2.2 Heart
The industrial-looking heart is controlled by a group of cells known as the **cardiac pacemaker** that set the rate at which the heart contracts.

2.2.2 Lung
The lungs are spongy organs that are located in the chest cavity. They are the site of **gas exchange** (O₂ & CO₂).

2.2.2 Blood Vessels
Blood is the fluid that carries oxygen and nutrients to the cells of the body. It also carries away waste products. Blood is made up of red blood cells, white blood cells, platelets and plasma.

2.2.2 Blood Components
Plasma - yellow liquid that carries O₂, CO₂, water, hormones & most soluble products of digestion.
Red blood cell - transport O₂. They are biconcave and have a hemoglobin protein that binds to oxygen.
White blood cell - immune system. Lymphocytes can engulf and kill pathogens.
Platelets - help to form blood clots to prevent bleeding.

2.2.4 CHD (non-communicable)
Coronary arteries supplying oxygen to the heart muscle become narrowed.
Build up of fatty material on the lining of the arteries.
Blood flow is reduced.
Oxygen supply is reduced.
Leads to pain, heart attack, stroke, heart failure, angina, myocardial infarction.

Further Reading:
Combined Science CQP - Page 46
Separate Science CQP - Page 46

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Contact
You can email your class teacher if you have any questions about the activities set.

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Year 10 Infection and Response 1

Pathogens
A pathogen is a small organism that causes disease. Pathogens can be bacteria, viruses, fungi, protozoa or helminths.

Commensal Bacteria
Some bacteria live on or inside the body without causing disease. They are called commensal bacteria.

Non-Communicable Diseases
Diseases that are not spread from one person to another.

Year 10 Infection and Response 2

Human Defence System
The human body has a defence system to protect itself from pathogens.

Physical Barriers
Skin, mucous membranes, and tears.

Chemical Barriers
Antibodies, enzymes, and stomach acid.

Cellular Defences
White blood cells, including phagocytes and lymphocytes.