

Medical Science

Unit of work	Wider engagement opportunities for Y12			
	Reading/Doing	Watching	Listening	Trips
Autumn 1	<i>The Cell: A Very Short Introduction</i> — Oxford University Press	Crash Course A&P — “Cells, Organelles & Membranes”	BBC Sounds — “Inside Health: What makes a healthy cell?”	University / FE Biomedical Lab Experience Day (local universities normally accept L3 Applied)
Autumn 2	NHS website pages on cardiovascular, digestive, respiratory & endocrine systems	BBC “The Human Body: Secrets of Your Life Revealed”	Royal Society of Biology Podcast — “The Systems That Keep Us Alive”	STEM Ambassador / NHS speaker visit — physiologist or biomedical scientist
Spring 1	Public Health Wales report — “Lifestyle & Disease in Young People”	<i>Pandemic: How to Prevent an Outbreak</i> — Netflix	WHO Podcast — “How pathogens affect the human body”	Visit to local infection sciences lab / microbiology or health outreach centre
Spring 2	ONS disease and mortality datasets (for preparing Unit 1 data-analysis questions)	Khan Academy — “Interpreting medical graphs & statistics”	<i>More or Less</i> (BBC) — How not to misuse data	Meet NHS research & statistics teams / UoW medical research department event
Summer 1	British Heart Foundation resource pack on ECG interpretation	GE Healthcare — “How medical measurements are used in diagnosis”	Life Scientific — “The Art of Measuring the Human Body”	Clinical physiology workshop: ECG, spirometry, BP measurement masterclass (many NHS trust education centres offer this free for schools)
Summer 2	BMJ “How to read a	TED Talk — “Why medical	Nature Podcast — “Designing	University Research Skills Day / Royal Society

	scientific research paper”	research matters”	experiments that work”	Summer Science Exhibition

Unit of work	Wider engagement opportunities for Y13			
	Reading	Watching	Listening	Trips
Autumn 1	<i>How Drugs Work</i> – NHS Medicines overview + BNF student guide	BBC Horizon — Pain, Pus & Poison: The Search for Modern Medicines	Royal Pharmaceutical Society Podcast — “From molecule to medicine”	University Pharmacy Department or hospital pharmacy behind-the-scenes visit
Autumn 2	Wellcome Trust — “History of antibiotics and antibiotic resistance”	<i>Netflix — The Surgeon’s Cut</i> (episode on organ transplantation & drug rejection)	<i>Science Vs</i> — “Do supplements work? Evidence in treatment vs placebo”	STEM trip to a biotechnology / pharmaceutical manufacturer (AstraZeneca / Pfizer outreach / smaller firms often free)
Spring 1	Public Health Wales — “How diagnostic labs identify disease”	<i>The Gene: An Intimate History</i> (focus on genetic testing & diagnostics)	<i>Inside Pathology</i> Podcast — “What happens to blood and tissue samples?”	Hospital clinical diagnostics lab tour — haematology, biochemistry, microbiology
Spring 2	Institute of Biomedical Science — student case logs (example reports)	King’s College online demonstrations — “Blood grouping, ELISA & staining”	BMJ Talk Medicine — “How clinicians use lab results in diagnosis”	Forensic science lab / university microscopy centre (strengthens lab confidence before the exam task)
Summer 1	NICE case reviews — decision-making in diagnosis & treatment	<i>24 Hours in A&E</i> — real-time integration of symptom analysis & diagnostics	Emergency Medicine Cases podcast — episodes on differential diagnosis	Medical conference / Royal Society Summer Science Exhibition — exposure to

				multidisciplinary applied science
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Possible resources for the Sixth Form Study Centre in order of priority

Possible resources for Sixth Form Study Centre (ranked)

- 1 Oxford University Press — “Anatomy & Physiology: A Very Short Introduction Series”**
- 2 Essential Medical Statistics (Kirkwood & Sterne) — supports Unit 1.4 & Unit 3**
- 3 British Heart Foundation & Diabetes UK printed learning resources**
- 4 Access to Public Health Wales / ONS datasets for research projects**
- 5 NHS Careers & Royal College career route posters**
- 6 Subscription to “New Scientist” (monthly) — medical & health sections most relevant**
- 7 Pocket revision guide for interpreting medical measurements (ECG, BP, spirometry)**