

Medical Interventions

77 class days · 2026-08-24 to 2026-12-18 · 18 night-before assignments · 3 weekend assignments · nothing pushed to extra credit

- Each box:** the day's topic, then the PLTW step to finish that day to stay on track, then where the work goes.
- Night before** (purple): about 25 minutes of prep at home so the whole block is free for the lab it feeds.
- Catch-up / flex** (grey-green, no topic): a school day deliberately left open to re-teach, finish a lab, or absorb a lost day. **No school:** district holiday or break. Nothing is due.
- Weekend** (blue): independent work over a weekend, no equipment needed. Tracker audits and WebXam practice.
- Due in this block** (gold): closeout work finished and handed in during that class, because no class follows it. **TBA**

John Carroll ethics lesson not received yet. Run the alternate and collect an exit ticket. **TO CONFIRM** PLTW activity number previewed from public maps, not yet confirmed in myPLTW.

August 2026				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
24 Course welcome, rules, and expectations Nothing in myPLTW yet. Learn the class routines and expectations. → Exit Tickets	25 Finding lessons on the class site Nothing in myPLTW yet. Find today's lesson page on the class site. → Exit Tickets	26 Cornell notes and the 6 Rs Nothing in myPLTW yet. Set up your first Cornell notes page. → Lab Notebooks	27 Lab safety rules and myPLTW login Log in to myPLTW and find where assignments are submitted. → Class Records	28 WebXam pretest and personal goals Nothing new in myPLTW. Finish the WebXam pretest and write one goal. → Class Records
31 Lab safety and reading an SDS Nothing new in myPLTW. Sign the safety contract before any lab work. → Exit Tickets				

September 2026				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	1 Lab notebook and portfolio setup Log in to the myPLTW shell and find where work is submitted. → Lab Notebooks	2 Debate: isolation versus personal freedom Nothing new in myPLTW. Post your isolation CER and the exit ticket. → Claim Evidence Reasoning Night before: Intervention inventory → Class Records Night before: Launch portfolio submission → Class Records	3 Telling signs apart from symptoms Open Activity 1.1.2 Investigating an Outbreak in myPLTW and start it. → Data Tables	4 Comparing bacteria, viruses, fungi, parasites Keep working through Activity 1.1.2 Investigating an Outbreak in myPLTW. → Data Tables

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7 <i>no school</i>	8 Mapping how an outbreak spreads Finish Activity 1.1.2 Investigating an Outbreak in myPLTW. → Lab Notebooks	9 Naming the pathogen and source Submit your outbreak CER in the myPLTW course shell. → Claim Evidence Reasoning	10 Running a BLAST search on unknown DNA Run the BLAST search in Activity 1.1.3 and save your hit table. → Lab Reports Night before: DNA sequencing basics → Class Records	11 Judging a BLAST match quality Finish Activity 1.1.3 Using DNA to Identify Pathogens in myPLTW. → Data Tables
14 Defending your pathogen identification Submit your pathogen-ID report in the myPLTW course shell. → Lab Reports	15 Debate: who gets a scarce test Nothing new in myPLTW. Post your testing-priority CER and the exit ticket. → Claim Evidence Reasoning	16 Serial dilution and concentration math Open Activity 1.1.5 ELISA in myPLTW and start the dilution work. → Data Tables	17 How antibodies make ELISA work Run the ELISA model in Activity 1.1.5 and record every well. → Data Tables Night before: Standard curve and lab prep → Class Records	18 Standard curve and ELISA model submission Submit your standard curve and ELISA model data in myPLTW. → Lab Reports
21 Debate: living with false test results Nothing new in myPLTW. Post your false-results CER and the exit ticket. → Claim Evidence Reasoning	22 Running the real ELISA plate Finish Activity 1.1.5 ELISA in myPLTW with your recorded well colors. → Data Tables Night before: Controls and wet-lab plan → Class Records	23 Sensitivity versus specificity of a test Finish Activity 1.1.6 Final Diagnosis in myPLTW. → Data Tables	24 Full ELISA lab report Submit your ELISA lab report in the myPLTW course shell. → Lab Reports	25 Debate: limiting antibiotic access Nothing new in myPLTW. Post your stewardship CER and the exit ticket. → Claim Evidence Reasoning
28 TBA Disk diffusion and zone measurement Record your zone measurements in Activity 1.2.1 Antibiotic Therapy. → Data Tables Alternate: Bioethics debate: isolation vs autonomy Night before: Antibiotic mechanisms → Class Records	29 Antibiotics lab report submission Submit your antibiotics report in the myPLTW shell. → Lab Reports Night before: Resistance and stewardship → Lab Notebooks	30 Debate: studying dangerous bacteria Nothing new in myPLTW. Post your research-risk CER and the exit ticket. → Claim Evidence Reasoning		

October 2026

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
			1 Streaking plates and counting colonies Record your colony counts in Project 1.2.3 Attack of the Superbugs. → Data Tables Night before: Aseptic technique → Class Records	2 How superbugs share resistance genes Finish Activity 1.2.4 When Antibiotics Fail in myPLTW. → Lab Notebooks

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
5 TBA Debate: cochlear implants for children Read the brief in Activity 1.3.3 Cochlear Implants, then post your CER. → Claim Evidence Reasoning Alternate: Bioethics debate: who gets the test	6 Reading an audiogram for hearing loss Finish Activity 1.3.3 Cochlear Implants in myPLTW. → Data Tables	7 Vaccines and a disease-spread model Open Lesson 1.4 Vaccination in myPLTW and run the disease model. → Lab Reports	8 Calculating a herd immunity threshold Finish the Lesson 1.4 Vaccination tasks in myPLTW. → Exit Tickets	9 <i>no school</i>
12 TBA Debate: who sees genetic data Nothing new in myPLTW. Post your genetic privacy CER and the exit ticket. → Claim Evidence Reasoning Alternate: Bioethics debate: antibiotic stewardship Weekend: Unit 1 tracker check → Class Records	13 Tracking a trait through a pedigree Open Lesson 2.1 Genetic Testing and Screening in myPLTW and start it. → Data Tables	14 Linking a SNP to a trait Work the Lesson 2.1 genotype tasks in myPLTW. → Data Tables	15 Explaining a carrier result to family Finish Activity 2.1.1 Chronicles of a Genetic Counselor in myPLTW. → Claim Evidence Reasoning	16 Debate: raw results to patients Nothing new in myPLTW. Post your access-to-results CER and the exit ticket. → Claim Evidence Reasoning Night before: MP1 tracker audit → Class Records
19 TBA Reading bands on a gel Finish Activity 2.1.2 Copying Our Genes in myPLTW. → Lab Reports Alternate: Bioethics debate: research vs risk Night before: PCR and primers → Lab Notebooks	20 What a microarray measures Nothing new in myPLTW. Close out any unfinished Activity 2.1.2 work. → Class Records	21 Fold change in expression data Finish Activity 3.1.4 DNA Microarray in myPLTW. → Data Tables Night before: Methods quiz → Class Records	22 Reading a heat map for risk Finish Activity 3.1.5 Unlocking the Secrets in Our Genes in myPLTW. → Claim Evidence Reasoning	23 Microarray analysis report Submit your microarray analysis report in the myPLTW course shell. → Lab Reports
26 TBA Debate: editing genes in embryos Nothing new in myPLTW. Post your germline editing CER and the exit ticket. → Claim Evidence Reasoning Alternate: Cochlear implant debate	27 How viral vectors deliver genes Open Activity 2.2.1 Gene Therapy in myPLTW and chart the vectors. → Lab Notebooks	28 CRISPR editing and off-target risk Finish Activity 2.2.1 Gene Therapy in myPLTW. → Claim Evidence Reasoning	29 Weighing gene therapy risk and benefit Submit your gene therapy ethics CER in the myPLTW course shell. → Claim Evidence Reasoning	30 Debate: fair access to screening Nothing new in myPLTW. Post your screening equity CER and the exit ticket. → Claim Evidence Reasoning

November 2026

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
2 <i>no school</i>	3 <i>no school</i>	4 Sorting evidence by strength Work the Lesson 2.2 Our Genetic Future tasks in myPLTW. → Data Tables Night before: Molecule-to-patient case packet → Lab Notebooks	5 Drafting a treatment recommendation Finish the Lesson 2.2 Our Genetic Future tasks in myPLTW. → Claim Evidence Reasoning	6 Debate: does cancer screening help Nothing new in myPLTW. Post your screening CER and the exit ticket. → Claim Evidence Reasoning Night before: Unit 2 summative → Class Records

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9 TBA Normal versus cancerous tissue images Start Unit 3 in myPLTW with Activity 3.1.1 Who Is Affected by Cancer? → Lab Reports Alternate: Genetic privacy debate	10 Debate: access to experimental drugs Read the brief in Activity 3.4.3 Clinical Trials, then post your stance. → Exit Tickets	11 <i>no school</i>	12 From biopsy to tumor stage Open the Unit 3 diagnostic-workflow notes in myPLTW and stage two cases. → Exit Tickets	13 Chemotherapy versus radiation mechanisms Read the Unit 3 treatment-mechanism notes in myPLTW. → Claim Evidence Reasoning
16 TBA Targeted cancer drugs and markers Add your targeted-therapy comparison to the Unit 3 tracker. → Data Tables Alternate: Access-to-results debate	17 Recommending a cancer treatment plan Submit your cancer treatment recommendation memo in myPLTW. → Claim Evidence Reasoning	18 Debate: who receives a donor organ Read the organ-allocation briefing in myPLTW, then post your stance. → Exit Tickets	19 Purification, matching, and scaffold stations Read the station packet in myPLTW and complete all three data rows. → Data Tables Night before: Recombinant DNA flow → Lab Notebooks	20 Comparing ways to replace an organ Add your tissue-engineering comparison to your Unit 4 tracker in myPLTW. → Data Tables
23 TBA Debate: pricing engineered protein drugs Read the engineered-protein briefing in myPLTW, then post your stance. → Exit Tickets Alternate: Germline editing debate Weekend: Final tracker evidence packet → Class Records	24 Transformation and selecting cloned cells Record your transformation and yield data in Activity 4.1.2 Protein Factories. → Lab Reports Night before: Plasmids and enzymes → Lab Notebooks	25 <i>no school</i>	26 <i>no school</i>	27 <i>no school</i>
30 TBA How a cell makes the protein Finish Activity 4.1.2 Protein Factories in myPLTW. → Lab Notebooks Alternate: Gene therapy ethics CER				

December 2026

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	1 Why a protein medicine must be pure Open Activity 4.1.3 Protein Purification in myPLTW; turn in the exit ticket. → Exit Tickets Weekend: Cloning workflow quiz → Class Records	2 Running the purification column Record your fraction data in Activity 4.1.3 Protein Purification. → Data Tables Night before: GFP and chromatography → Lab Notebooks	3 Judging purity on a gel Finish Activity 4.1.3 Protein Purification in myPLTW. → Data Tables	4 Protein purification lab report Submit your protein purification lab report in myPLTW. → Lab Reports

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7 TBA Debate: allocating donor kidneys Read the kidney-allocation briefing in myPLTW and post a stance. → Exit Tickets Alternate: Screening equity debate	8 Dialysis and HLA crossmatching Run the dialysis and crossmatch simulation in myPLTW. → Data Tables Night before: Nephron and renal data → Lab Notebooks	9 Transplant rejection and immunosuppression Add your compatibility table to the Unit 4 tracker. → Data Tables	10 Choosing who receives the kidney Submit your allocation CER in the myPLTW shell. → Claim Evidence Reasoning	11 Debate: emerging replacement technologies Read the emerging-tech briefing in myPLTW and post a stance. → Exit Tickets
14 TBA Xenotransplants, bionics, and prosthetics Add your replacement-options comparison to the Unit 4 tracker. → Data Tables Alternate: Cancer screening debate Night before: Scaffolds and stem cells → Lab Notebooks	15 Analyzing an intervention design Open the assigned design case in myPLTW and analyze it. → Lab Notebooks	16 Is this intervention patient-ready Submit your design critique in the myPLTW shell. → Claim Evidence Reasoning	17 Capstone bioethics debate Read the capstone-ethics briefing in myPLTW and pick a dilemma. → Exit Tickets	18 One case from molecule to patient Open the integrated case in myPLTW and map it. → Lab Notebooks Due in this block: Portfolio audit → Class Records Due in this block: Gap closeout → Class Records Due in this block: Final portfolio submit → Class Records

Every Monday collects an exit ticket. Where the John Carroll lesson is marked TBA, run the listed alternate and collect the ticket as usual. Night-before and weekend work is assigned, not optional, and goes to the same folders. Go Hornets.