

Human Body Systems

57 class days · 2027-01-19 to 2027-05-14 · 20 night-before assignments · 7 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.

January 2027

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
18 <i>no school</i>	19 Welcome, expectations, and course map Optional: read the HBS welcome page and set up your myPLTW login. → Exit Tickets	20 Navigating the class website No myPLTW work yet. Log in and confirm your HBS course appears. → Exit Tickets	21 <i>catch-up / flex</i>	22 Cornell notes and the 6 Rs Nothing new in myPLTW. Set up your notebook using the 6 Rs. → Lab Notebooks
25 Lab safety and how to submit Pass the safety check and practice one myPLTW submission end to end. → Class Records	26 WebXam pretest and goal setting Nothing new in myPLTW. Finish the WebXam pretest and write one goal. → Class Records	27 <i>catch-up / flex</i>	28 Bioethics: who owns a body Nothing new in myPLTW. Post your CER and open Lesson 1.1. → Claim Evidence Reasoning	29 TO CONFIRM Anatomy, physiology, and homeostasis Start Lesson 1.1 Beginning with Bones and meet your case patients. → Lab Notebooks

February 2027

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1 Lab notebook setup and safety practical No new myPLTW activity. Log your notebook and clear the safety practical. → Class Records	2 <i>catch-up / flex</i>	3 TO CONFIRM Anatomical directional terms Finish the Lesson 1.1 language-of-anatomy activity in myPLTW. → Class Records	4 Bioethics: medical imaging and privacy Nothing new in myPLTW. Post your imaging-consent CER and catch up on Lesson 1.1. → Claim Evidence Reasoning Night before: Submit launch evidence → Class Records	5 Body planes and body cavities Keep working inside Lesson 1.1 and finish the assigned anatomy-mapping activity. → Lab Notebooks

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8 <i>catch-up / flex</i>	9 TO CONFIRM Four tissue types and organization Finish the Lesson 1.1 connective-tissue activity in myPLTW. → Lab Notebooks	10 Mapping a patient's injury site No new myPLTW activity. Apply Lesson 1.1 terms to your patient map. → Claim Evidence Reasoning	11 Bioethics: bone grafts and 3D parts Nothing new in myPLTW. Post your allocation CER and stay current in Lesson 1.1. → Claim Evidence Reasoning Night before: Submit organization evidence → Class Records	12 <i>no school</i>
15 <i>no school</i>	16 <i>catch-up / flex</i>	17 TO CONFIRM Classifying fractures from images Start the Lesson 1.1 orthopaedics project and classify your fracture set. → Data Tables Night before: Bone cells and bone structure → Class Records	18 TO CONFIRM Bone repair stages and hardware Finish the Lesson 1.1 orthopaedics project with your repair recommendation. → Claim Evidence Reasoning	19 Bioethics: performance-enhancing drugs Post the enhancement CER and start Lesson 1.2 in myPLTW. → Claim Evidence Reasoning Night before: Submit skeletal evidence → Class Records
22 <i>catch-up / flex</i>	23 TO CONFIRM Building muscles on the Maniken Keep moving through the Lesson 1.2 muscle and joint activities in myPLTW. → Lab Reports Night before: Sarcomere and contraction → Lab Notebooks	24 TO CONFIRM Agonist and antagonist muscle pairs Finish the Lesson 1.2 muscle-action activities before the motion-data week. → Lab Notebooks	25 Ethics Monday: wearable data privacy Nothing new in myPLTW. Post your wearable-data CER and stay current in Lesson 1.2. → Claim Evidence Reasoning Night before: Submit muscle evidence → Class Records	26 <i>catch-up / flex</i>

March 2027

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1 TO CONFIRM Measuring range of motion and EMG Complete the Lesson 1.2 range-of-motion activity in myPLTW with your lab data. → Data Tables Night before: Muscle fatigue and EMG basics → Class Records	2 TO CONFIRM Analyzing fatigue and motion data Finish the Lesson 1.2 range-of-motion write-up and graph your trials. → Claim Evidence Reasoning	3 Ethics Monday: access to rehab Nothing new in myPLTW. Post the rehab-access CER and open Lesson 1.3. → Claim Evidence Reasoning Night before: Submit motion-data evidence → Class Records	4 <i>catch-up / flex</i>	5 TO CONFIRM Designing a rehabilitation plan Build your Lesson 1.3 rehabilitation plan with exercises and one assistive device. → Lab Reports Night before: Empathy and patient data → Lab Notebooks
8 TO CONFIRM Revising the plan with feedback Finish the Lesson 1.3 rehabilitation problem and defend your revised plan. → Claim Evidence Reasoning	9 Ethics Monday: brain data and consent Nothing new in myPLTW. Post your brain-data CER and open Lesson 2.1. → Claim Evidence Reasoning Weekend: Submit rehab evidence → Class Records	10 <i>catch-up / flex</i>	11 Sheep brain or virtual dissection Keep working in Lesson 2.1 and log your brain-region observations. → Lab Reports Night before: Neuron parts and the synapse → Lab Notebooks	12 CNS, PNS, and brain regions Finish the assigned Lesson 2.1 nervous-system activities in myPLTW. → Lab Notebooks

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15 <i>catch-up / flex</i>	16 Ethics Monday: drugs and driving Nothing new in myPLTW. Post the impaired-driving CER and stay current in Lesson 2.1. → Claim Evidence Reasoning Weekend: Submit nervous-system evidence → Class Records	17 TO CONFIRM Measuring reaction time Complete the Lesson 2.1 reaction-time activity in myPLTW with your trial data. → Data Tables Night before: Reflex arc and myelin → Lab Notebooks	18 TO CONFIRM How drugs change neural signaling Finish the Lesson 2.1 neurology diagnosis project and your signaling CER. → Claim Evidence Reasoning	19 <i>catch-up / flex</i>
22 TBA Ethics Monday: hormone therapy for minors Nothing new in myPLTW. Write the hormone-consent exit ticket and open Lesson 2.2. → Exit Tickets Alternate: Bioethics: who owns a body? Weekend: Submit reflex evidence → Class Records	23 Endocrine glands and their hormones Open Lesson 2.2 Everything Endocrine and finish the assigned gland activity. → Class Records	24 TO CONFIRM Blood glucose negative feedback model Run the Lesson 2.2 hands-on worm activity and build your feedback model. → Lab Notebooks	25 <i>catch-up / flex</i>	26 <i>no school</i>

April 2027

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
5 TBA Reading blood glucose data Finish the Lesson 2.2 data analysis in myPLTW and write your CER. → Claim Evidence Reasoning Alternate: Bioethics: imaging and privacy	6 Ethics Monday: model organism research Nothing new in myPLTW. Write your model-organism exit ticket and open Lesson 2.3. → Exit Tickets Weekend: Submit tracker and evidence → Class Records	7 TO CONFIRM Independent, dependent, controlled variables Start Lesson 2.3 Challenge Accepted and define your experiment's variables. → Lab Notebooks	8 <i>catch-up / flex</i>	9 TO CONFIRM Designing a C. elegans study Draft your Lesson 2.3 research question, design, and poster outline in myPLTW. → Class Records
12 TBA TO CONFIRM Checking your design against literature Keep building the Lesson 2.3 research problem and cite one credible source. → Lab Notebooks Alternate: Bioethics: bone donation and 3D parts	13 Ethics Monday: heavy-metal exposure Nothing new in myPLTW. Write the exposure exit ticket and stay on Lesson 2.3. → Exit Tickets Weekend: Submit tracker and evidence → Class Records	14 <i>catch-up / flex</i>	15 TO CONFIRM Running the heavy-metal investigation Run the Lesson 2.3 investigation and record every concentration and control. → Data Tables Night before: Hypothesis and protocol → Class Records	16 TO CONFIRM Dose response and limitations Finish the Lesson 2.3 problem with your dose-response CER and limitations. → Claim Evidence Reasoning
19 TBA Ethics Monday: heart transplant allocation Nothing new in myPLTW. Write your allocation exit ticket and open Lesson 3.1. → Exit Tickets Alternate: Bioethics: performance enhancement Weekend: Submit tracker and evidence → Class Records	20 <i>catch-up / flex</i>	21 TO CONFIRM Heart model, EKG, and pulse Record your EKG and pulse for the Lesson 3.1 cardiac calculations activity. → Lab Reports Night before: Heart structure and cycle → Lab Notebooks	22 TO CONFIRM Comparing cardiac data to normal ranges Finish the Lesson 3.1 cardiac calculations and write your cardiovascular CER. → Claim Evidence Reasoning	23 Ethics Monday: ventilator allocation Nothing new in myPLTW. Write the triage exit ticket and stay on Lesson 3.1. → Exit Tickets Night before: Submit tracker and evidence → Class Records

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
26 <i>catch-up / flex</i>	27 TO CONFIRM Measuring lung volumes with spirometry Complete the Lesson 3.1 breathing activity and record your spirometry trials. → Data Tables Night before: Alveoli and gas exchange → Lab Notebooks	28 Comparing lung volumes to predicted Finish the Lesson 3.1 analysis and write your respiratory-capacity CER. → Claim Evidence Reasoning	29 Ethics Monday: vaccine mandates Nothing new in myPLTW. Write the mandate exit ticket and open Lesson 3.2. → Exit Tickets Night before: Submit tracker and evidence → Class Records	30 <i>catch-up / flex</i>

May 2027

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
3 TBA TO CONFIRM Modeling the antigen-antibody response Run the Lesson 3.2 antiviral simulation activity and model the immune response. → Lab Reports Alternate: Bioethics: wearable data privacy Night before: Innate and adaptive immunity → Class Records	4 Reading antibody data after vaccination Finish the Lesson 3.2 data analysis and write your immunity CER. → Claim Evidence Reasoning	5 Ethics Monday: extreme environment risk No myPLTW activity is confirmed here. Write the risk exit ticket. → Exit Tickets Night before: Submit tracker and evidence → Class Records	6 <i>catch-up / flex</i>	7 Simulated plaque assay and eye dissection No confirmed myPLTW activity. Run the plaque-assay simulation and record plaque counts. → Lab Reports Night before: Pathogen transmission → Lab Notebooks
10 TBA Which antiviral worked best No confirmed myPLTW activity. Graph plaque counts and write your antiviral CER. → Claim Evidence Reasoning Alternate: Bioethics: access to rehab	11 Kidney transplant and dialysis access Write the allocation exit ticket. No myPLTW activity is confirmed. → Exit Tickets Weekend: Submit tracker and evidence → Class Records	12 <i>catch-up / flex</i>	13 Urinalysis and enzyme digestion labs Run the simulated urinalysis and enzyme labs, record all results. → Data Tables Night before: Nephron and filtration → Lab Notebooks	14 Building a patient perspective exhibit Draft three exhibit panels from your lab and genetics evidence. → Lab Notebooks Due in this block: Submit tracker and evidence → 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.