



Biomedical Science (PLTW)





**Office of the State Superintendent of Education
Postsecondary and Career Education Division
Career and Technical Education Department**

The purpose of this document is to communicate the required Career and Technical Education (CTE) academic standards for the Biomedical Science (PLTW) Program of Study, which includes the following courses: Principles of Biomedical Science, Human Body Systems, Medical Interventions, and Biomedical Innovation. The academic standards in this document are nationally recognized by business, industry, and postsecondary partners. Use of the standards, course material, and resources requires a partnership with Project Lead the Way (www.pltw.org).

In this document, OSSE has incorporated Labor Market Information (LMI) definitions and explanations for the Program of Study; program aligned Industry Recognized Credentials; Work-Based Learning resources and requirements by course level; and recommended Equipment and Supply lists.

This document is intended for use by educational administrators and practitioners. A similar document is available for each state-approved CTE Program of Study.

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Biomedical Science (PLTW) Program of Study

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Biomedical Science (PLTW) Program of Study

Level I Course	Level II Course	Level III Course	Level IV Course
Principles of Biomedical Sciences OSSEID: 5080101	Human Body Systems OSSEID: 5080102	Medical Interventions OSSEID: 5080103	Biomedical Innovation OSSEID: 5080104

Principles of Biomedical Sciences (OSSEID: 5080101)

Grades: 9-12

Prerequisite: None

Description: In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Human Body Systems (OSSEID: 5080102)

Grades: 10-12

Prerequisite: Principles of Biomedical Sciences

Description: Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Medical Interventions (OSSEID: 5080103)

Grades: 11-12

Prerequisite: Human Body Systems

Description: Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Biomedical Innovation (OSSEID: 5080104)

Grades: 12

Prerequisite: Medical Interventions

Description: In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.

Industry Certifications

None

Work-Based Learning Examples and Resources

Level I Course	Level II Course	Level III Course	Level IV Course
Career Exploration Industry Visits Guest Speakers Participate in a CTSO	Career Awareness <i>All of Level I, plus:</i> Postsecondary Visits Program-Specific Site Tours Mock Interviews	Career Preparation <i>All of Level I and II, plus:</i> Job Shadow Paid/Unpaid Internships	Career Preparation Paid/Unpaid Internships Apprenticeships

Several resources are available to help instructors meet the Level I and Level II WBL requirements, including:

Career Coach DC (<http://careercoachdc.emsicc.com>). Online site designed to help students find and connect to a career pathway by providing the most current local data on wages, employment, job postings, and associated education and training. Resource includes a Career Assessment for students.

Nepris (<https://www.nepris.com>). Connects educators and learners with a network of industry professionals, virtually, bringing real-world relevance and career exposure to all students. Nepris also provides a skills-based volunteering platform for business and industry professionals to extend their educational outreach.

Virtual Job Shadow (<https://virtualjobshadow.com>). Provides interactive tools which empower students to discover, plan, and pursue their dreams. Rich video library presents a “day in the life of” view for thousands of occupations.

Labor Market Information Definitions and Data

Career and Technical Education programs of study in the District of Columbia must meet at least one of the High Wage, High Skill, and In Demand definitions, below, to be considered as appropriate for our students and regional labor market. These definitions were created in collaboration with Career and Technical Education leaders from District of Columbia LEA’s, the University of the District of Columbia Community College, and national guidance from Research Triangle International (RTI) and Education Northwest. Additionally, previous work was consulted from researchers at MIT’s Labor Wage Index Project and the DC CTE Task Force’s 2012 Strategic Plan for the District of Columbia.

High Wage: Those occupations that have a 25th percentile wage equal to or greater than the most recent MIT Living Wage Index for one adult in the District of Columbia, and/or leads to a position that pays at least the median hourly or annual wage for the Washington, DC, metropolitan statistical area. *(Note: A 25th percentile hourly wage of \$17.02 or greater is required to meet this definition).*

High Skill: Those occupations located within the Washington, DC, metropolitan statistical area with education or training requirements of: completion of an apprenticeship program; completion of an industry recognized certification or credential; associate’s degree, or higher.

In Demand: Those occupations in the Washington, DC, metropolitan statistical area having more than the median number of total (growth plus replacement) annual openings over a five-year period. *(Note: An occupation is required to have an annual growth plus replacement rate of 105 openings, or greater, between 2020-25 to meet this definition).*

Data for the Biomedical Science (PLTW) Program of Study *(source: EMSI, August 2019):*

Standard Occupational Code (SOC): 17-2031.00—Biomedical Engineers

Hourly Wages

25th Percentile: \$37.52

50th Percentile: \$47.39

75th Percentile: \$57.24

Annual Openings (Growth and Replacement): 50

Typical Entry Level Education: Bachelor’s Degree



Model Six-Year Plan: Biomedical Science (PLTW) Program of Study

College: University of the District of Columbia Community College

Program/CIP:

Plan:

Entity: Office of the State Superintendent of Education

Career Cluster: Health Science

Program of Study: Biomedical Science (PLTW)

High School					College			
Subject	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Semester I	Semester II	Semester III	Semester IV
English (4)	English I	English II	English III	English IV				
Math (4)	Algebra I	Geometry	Algebra II	Math				
Science (4)	Biology	Lab Science	Lab Science	Science				
Social Studies (4)	World History and Geography I: Middle Ages	World History and Geography II: Modern World	U.S. History	U.S. Government (.5) and DC History (.5)				
Health (.5) and Physical Ed (1)	Health (.5) Physical Ed (.5)	Physical Ed (.5)						
World Languages (2)			World Language I	World Language II				
Art (.5)		Art (.5)						
Music (.5)		Music (.5)						
Elective / Major Courses	Principles of Biomedical Science	Human Body Systems	Medical Interventions	Biomedical Innovation				
Total possible college credits completed in high school: XX					Credit hours required to complete the AAS program: XX			

Principles of Biomedical Sciences (PLTW)

- (a) **General requirements.** This course is recommended for students in Grades 9-12. Recommended prerequisite: none. Students shall be awarded one credit for successful completion of this course.
- (b) **Introduction.**
- (1) Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions.
 - (2) The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
 - (3) In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.
 - (4) Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.
 - (5) Scientific decision making is a way of answering questions about the natural world. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information).
 - (6) A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems as patterns and can be observed, measured, and modeled. These patterns help to make predictions that can be scientifically tested. Students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.
 - (7) Students will participate in at least two Career Exploration Work-Based Learning experiences in this course, which might include guest speakers and work-place tours relevant to the program of study.
 - (8) Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
- (c) **Knowledge and Skills.** Content requirements for Project Lead the Way Principles of Biomedical Sciences are prescribed in the Project Lead the Way Principles of Biomedical Sciences publication: Principles of Biomedical Sciences, published by Project Lead the Way.

Human Body Systems (PLTW)

- (a) **General requirements.** This course is recommended for students in Grades 10-12. Recommended prerequisite: Principles of Biomedical Sciences. Students shall be awarded one credit for successful completion of this course.
- (b) **Introduction.**
- (1) Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions.
 - (2) The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
 - (3) Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Manikin; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.
 - (4) Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.
 - (5) Scientific decision making is a way of answering questions about the natural world. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information).
 - (6) A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems as patterns and can be observed, measured, and modeled. These patterns help to make predictions that can be scientifically tested. Students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.
 - (7) Students will participate in a Career Preparation Work-Based Learning experience in this course, which includes paid or unpaid internship, pre-apprenticeship, or apprenticeship experiences relevant to the program of study.
 - (8) Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
- (c) **Knowledge and Skills.** Content requirements for Project Lead the Way Human Body Systems are prescribed in the Project Lead the Way Human Body Systems publication: Human Body Systems, published by Project Lead the Way.

Medical Interventions (PLTW)

- (a) **General requirements.** This course is recommended for students in Grades 11-12. Recommended prerequisite: Human Body Systems. Students shall be awarded one credit for successful completion of this course.
- (b) **Introduction.**
- (1) Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions.
 - (2) The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
 - (3) Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.
 - (4) Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.
 - (5) Scientific decision making is a way of answering questions about the natural world. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information).
 - (6) A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems as patterns and can be observed, measured, and modeled. These patterns help to make predictions that can be scientifically tested. Students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.
 - (7) Students will participate in a Career Preparation Work-Based Learning experience in this course, which might include paid or unpaid internship experiences relevant to the program of study.
 - (8) Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.
- (c) **Knowledge and Skills.** Content requirements for Project Lead the Way Medical interventions are prescribed in the Project Lead the Way Medical Interventions publication: Medical Interventions, published by Project Lead the Way.

Biomedical Innovation (PLTW)

(a) **General requirements.** This course is recommended for students in Grades 12. Recommended prerequisite: Medical Interventions. Students shall be awarded one credit for successful completion of this course.

(b) **Introduction.**

- (1) Career and technical education instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions.
- (2) The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
- (3) In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.
- (4) Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.
- (5) Scientific decision making is a way of answering questions about the natural world. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information).
- (6) A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems as patterns and can be observed, measured, and modeled. These patterns help to make predictions that can be scientifically tested. Students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.
- (7) Students will participate in a Career Preparation Work-Based Learning experience in this course, which includes paid or unpaid internship, pre-apprenticeship, or apprenticeship experiences relevant to the program of study.
- (8) Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

(c) **Knowledge and Skills.** Content requirements for Project Lead the Way Biomedical Innovation are prescribed in the Project Lead the Way Biomedical Innovation publication: Biomedical Innovation, published by Project Lead the Way.



Principles of Biomedical Sciences Recommended Equipment List

Note: Quantities of these items are determined by course enrollment numbers; please consult the PLTW site for specific quantities needed for your campus.

3DMD Dynamic DNA Kit (PBS 1.2.1)
Agarose Powder, 25g, ingredient to make Electrophoresis gels
Albumin from eggs, 25g
Alcohol Burners, 3.5 oz/100 mL
Apple Juice, 64 oz bottle
Artery, vein and capillary, Cs histology slides
Bacillus Gram Negative Microscope Slide
Bacillus Gram Positive Microscope Slide
Baking Powder, 200g
Baking Soda, 454g
Beakers, 100 mL, 12 pack
Beakers, 1000 mL, 6 pack
Beakers, 250 mL, 12 pack
Beakers, 50 mL, 12 pack
Benedicts Qualitative Solution, 500 mL
Biuret Reagent Solution, 500 mL
Bleach, 1 gallon, unscented
Buret Clamps, 1 3/8 inch Opening
Butane Lighter
Carolina Gram Staining & Bacterial Morphology Lab PBS 5.1.4
Cell Zone Molecular Puzzle (PBS 2.2.3, HBS 3.2.6)
Cheesecloth, 5 Yards
Chips, 16 oz bag
Coccus Gram Positive Prepared Microscope Slide
Colored Pencils, 12 pack
Colored permanent markers, 8 pack
Conical Tubes, 50 pack, 15 mL
Construction paper, 12" x 18", 50 pack
Corn Oil, 710 mL bottle
Corn Starch 12oz can (340g)
Cotton string, 400 ft.
Crackers, butter flavored round, 12 oz
Craft Pom-Poms - pack of 240
Craft Sticks, 1000 pack
Crime Scene Barrier Tape, 3 in x 1000 foot length roll

Dextrose, 500g
Diagnosing Diabetes Customized PLTW Kit Pack (PBS 2.11)
Dialysis Tubing, 32 mm x 20.4 mm, 100 feet
Diet Soda, clear, 2 Liter bottle.
Digital Camera, 10.0 Megapixel
Disposable Serological Pipets, 10mL, .1mL markings, 200 pack
Disposable Soda Lime Glass Pipets, 9 inch, 250 pack
Disposable Transfer Pipets, Narrow Stem, 500 pack
Dissecting Forceps, Stainless Steel , 4 1/2 inch, 10 pack
Dissection Guide, Mammilian Heart, Illustrated
Dissection Tray, Wax Lined
Distilled Water, 1 gallon
DNA DuraGel, Simulated Agarose Gel Practice , 6 pack
Dual Magnifier, 3 x magnification, 6 pack
Easel Pad, 20 in x 30 in, sticky top 30 sheet, 2 pack
Edvotek M12 Complete Electrophoresis Package
Edvotek Micropipet, Digital, 10-100 ul
Edvotek Yellow Pipet Tips, 1-200 uL, 10 x racks of 96 tips
Egg Whites, 16 oz
Electronic Balance, 500 g, 0.1 g Readability
Erlenmeyer Flask, Narrow neck, 250 mL, 12 pack
Erlenmeyer Flask, Narrow neck, 500 mL, 6 pack
Erlenmeyer Flasks, 1000 mL, 6 pack
Erlenmeyer Flasks, 50 mL, 12 pack
Escherichia coli (non-pathogenic) Gram Stain Prepared Slide
Ethyl Alcohol, 95%, 500mL, Denatured (also known as Ethanol)
Flint Glass Tubing, 60 cm long x 5 mm OD, 1 lb, 24 pack
Florist wire, 22 gauge, 100 feet, 2 pack
Food Coloring, 4 Pack Assorted Colors
Food Storage Containers with lid, 2 pack
Forceps, Fine-Point with Guide Pin, 4 1/2 inch, 10 pack
Gelatin, Box of 4
Glass Cover Slips, 18 mm x 18 mm, 100 pack
Glass Dropping Bottles, 15 mL, 12 pack
Glue stick (.28oz), 24 pack
Glycerin, 500 mL
Graduated Cylinder, 10 mL, 0.2 mL Graduations, 5 pack
Graduated Cylinder, 1000 mL
Graduated Cylinder, 250 mL
Graduated Cylinder, 50 mL, Polypropylene, 5 pack
Gram-Negative Spirillum Microscope Slide, w.m.
Granulated Sugar, 16 oz canister
Heavy Duty Aluminum Foil
Highlighters, 2 pack, 2 colors
Hot Plate Stir Plate, 7 in x 7 in surface, 100-120V
Human Blood Film Smear Slides, Wright's Stain
Hydrochloric Acid, 0.1 M, 1 liter

Immersion Oil, Type B, 1 oz
Inoculating Loops and Needles, Sterile, 250 pack
Lab Incubator, 0.7 cu. ft.
Magnetic Stir Bar, 1 in
Marshmallow, Miniature, 10.5-oz Bag
Masking tape, 1 in x 60 yd, 9 pack
Meter Stick, Wood, Case of 6
Microcentrifuge Tube Rack, 20 well, 6 pack
Microcentrifuge Tubes, 500 pack
Microcentrifuge, High Speed 9800 xG
Microscope, binocular, 100 x Objective
Microwave, 1.1 cubic foot, 1000 watt
Modeling clay, 4 colors, 1 lb, pk/6 -not for use w/ Manikens
Mohrs Pinchcock Clamp for Tubing, 10 pack
NOVA: Cracking the Code of Life DVD
Oat Cereal, 12 oz
Oatmeal, 18 oz
Oven gloves, terry cloth, 1 pair
Pack of 100 Sterile Alcohol Pads
Pack of 50 Assorted Balloons
Paper cups 4-5 oz, 100 pack
PBS Professional Development Registration
Peanuts, 16 oz shelled
Permanent Black Marker, 12 pack
pH Paper in Dispenser, 1/2" x 50', with Color Chart
Phenolphthalein, Indicator Powder 100g
Pipe Cleaners, 12 inch, 100 pack
Plastic Wrap Roll
PLTW High School Basic Lab Journal - 30 pack
PLTW Hypercholesterolemia Kit by Edvotek (PBS 4.3.2)
Pony Beads, 1000 pack, assorted colors
Poster Board, White, 22 x 28 inch, 25 pack
Potassium Iodide, 0.9%, 100 mL
Powder-Free Disposable Nitrile Gloves, Large - 100 pack
QuadraSource Power Supply, for electrophoresis units
Red Beans, Dry 16 oz.
Red Spirit-Filled Thermometers, -20 to +150 degrees, 25 pack
Return address labels, 1/2 inch x 1.75 inch, 25 sheets
Rubber Bands, 1/4 lb, Assorted
Rubber Laboratory Apron, 27 inch x 42 inch, case of 25
Rubber Stopper, # 6, 2 hole, 1 pound
Rubber Tubing, amber, 3/16" bore, 1/16" wall, 10 ft.
Ruler, Clear Plastic, 12 inch / 31 cm, metric and English
Ruler, Clear Plastic, 15 CM / 6 IN, 10 pack
Safety Goggles, Anti-fog Indirect Vent, 10 pack
Sanitizing Cabinet, Thirty-Five Goggle Capacity
Scientific Calculator, any brand

Scissors, 7 inch, plastic handle, pointed tip
Screw Compression Clamp with Open Jaw, 13-19 mm
SD Card, 8 GB+ (for use with digital camera)
Set of 4 dry erase markers
Sheep Hearts, Plain, Pail of 8, Formalin
Skim Cow's Milk, half gallon
Sodium Chloride, 500g
Sodium Hydroxide, 500 mL
Sodium Polyacrylate, 100 grams
Sticky Notes, Small 1.5 inch x 2 inch, 12 pack
Stirring Rods, 12 pack
Stopwatch, handheld, LED, 10 pack
Student Grade Economy Microscope Slides, 72 pack
Styrofoam ball, 1 inch, 16 pack
Styrofoam ball, 2 inch, 12 pack
Styrofoam ball, 3 inch, 6 pack
Styrofoam block, 3 inch cubed, 24 pack
Support Stand with Rod and Base
Tape Measure, fiberglass, 60 inch
Test Tube Brushes, 12 pack
Test Tube Clamp (Stoddard Clamp)
Test Tube Rack, polypropylene, 12 well, 5 peg
Test Tubes, 72 pack, 20 mm x 150 mm
Tofu, 12 oz
Toothpicks, round, 250 count, plain
Transparent tape, 1 roll
Triangular Files with Handle, 6 inch
Tripod and stand, 4 inch, with Accessory Kit
Tryptic Soy Agar Plates, 10 pack (PBS 5.1.3) Voucher
Tubing, 6 mm diameter x 12 foot length
Vernier Blood Pressure Sensor
Vernier EKG Electrodes
Vernier EKG Sensor
Vernier Go! Link
Vernier Hand Grip Heart Rate Monitor
Vernier LabQuest Mini
Vernier Stainless Steel Temperature Probe
Ward's Atherosclerosis Slide
Ward's Complete Blood Pressure Kit PBS 4.2.2, HBS 4.3.5
Ward's Numbered Marker Tents, 15 pack
Ward's Pigmented Bacteria Set (PBS 5.1.3) Voucher
Ward's Science Corks, 10 pack
Ward's Science Pipet Fillers, 50 mL Capacity
Ward's Science Small Latex Bulbs, 72 pack, 1 mL Capacity
Ward's Sickle Cell Anemia, smear, slide
Ward's Student Dissecting Set PBS 4.1.2, HBS 2.4.1, BI 7.1.1
Wards Digital Waterbath, 2.0 L

Washing Bottle with Trigger Sprayer, 500 mL capacity
Weigh Dish, 500 pack
White Beans, Dry 16 oz.
White Glue, 4 oz, 4 pack
White Light Illuminator
White Vinegar, 473 mL
Whole Cow's Milk, half gallon



Human Body Systems Recommended Equipment List

Note: Quantities of these items are determined by course enrollment numbers; please consult the PLTW site for specific quantities needed for your campus.

Acetone, Lab Grade, 500 mL
Adult Skin, Microscope Slide
Agarose Powder, 25g, ingredient to make Electrophoresis gels
ANATOMY IN CLAY EZ-Squeeze Handle with Clay Extruder
ANATOMY IN CLAY Learning System, PLTW Instructor Kit
ANATOMY IN CLAY Learning System, PLTW Student Kit
Aquasonic Gel, 250 mL
Artery, vein and capillary, Cs histology slides
Beakers, 100 mL, 12 pack
Beakers, 1000 mL, 6 pack
Beakers, 250 mL, 12 pack
Beakers, 50 mL, 12 pack
Bleach, 1 gallon, unscented
Broken Bones X-rays
Buret Clamps, 1 3/8 inch Opening
Carolina Visual Perception Kit (HBS 2.4.2)
Catalase, Laboratory, Powder, 5 g
Cell Zone Molecular Puzzle (PBS 2.2.3, HBS 3.2.6)
Coffee Stir Sticks, 1000 pack, 5.25 inch
Colored Pencils, 12 pack
Colored permanent markers, 8 pack
Construction paper, 12" x 18", 50 pack
Cotton string, 400 ft.
Cow Eyes, Preserved, 10 pack
Craft Pom-Poms - pack of 240
Craft Sticks, 1000 pack
D Cell Battery, pack of 6 for flashlights
Digital Camera, 10.0 Megapixel
Disposable Serological Pipets, 10mL, .1mL markings, 200 pack
Disposable Soda Lime Glass Pipets, 9 inch, 250 pack
Disposable Transfer Pipets, Narrow Stem, 500 pack
Dissecting Forceps, Stainless Steel , 4 1/2 inch, 10 pack
Dissection Tray, Wax Lined
Distilled Water, 1 gallon
DNA DuraGel, Simulated Agarose Gel Practice , 6 pack

Easel Pad, 20 in x 30 in, sticky top 30 sheet, 2 pack
Edvotek M12 Complete Electrophoresis Package
Edvotek Micropipet, Digital, 0.5 - 10 ul
Edvotek Micropipet, Digital, 10-100 ul
Edvotek Pipet Tips, 0.5-10 uL, 10 x racks of 96 tips
Edvotek Yellow Pipet Tips, 1-200 uL, 10 x racks of 96 tips
Electronic Balance, 500 g, 0.1 g Readability
Erlenmeyer Flask, Narrow neck, 250 mL, 12 pack
Erlenmeyer Flask, Narrow neck, 500 mL, 6 pack
Erlenmeyer Flasks, 1000 mL, 6 pack
Erlenmeyer Flasks, 125 mL, 12 pack
Erlenmeyer Flasks, 50 mL, 12 pack
Fetal Doppler
Floating Microtube Rack Polypropylene rack
Florist wire, 22 gauge, 100 feet, 2 pack
Food Storage Containers with lid, 2 pack
Forceps, Fine-Point with Guide Pin, 4 1/2 inch, 10 pack
Glass Cover Slips, 18 mm x 18 mm, 100 pack
Glass Dropping Bottles, 15 mL, 12 pack
Glue stick (.28oz), 24 pack
Goniometer, 12", 360 degrees
Graduated Cylinder, 10 mL, 0.2 mL Graduations, 5 pack
Graduated Cylinder, 1000 mL
Graduated Cylinder, 250 mL
Graduated Cylinder, 50 mL, Polypropylene, 5 pack
HBS Professional Development Registration
Highlighters, 2 pack, 2 colors
Histology of Mammalia, Basic Set, 25 slides
Hot Plate Stir Plate, 7 in x 7 in surface, 100-120V
Human Blood Film Smear Slides, Wright's Stain
Human Eye Model
Human: Pushing the Limits DVD Set
Hydrochloric Acid, 0.1 M, 1 liter
Hydrogen Peroxide, 3%, 3.8 L
Hydrogen Peroxide, 6%, 3.8 L
Immersion Oil, Type B, 1 oz
Interlocking Cubes, 500 pack
Magic Eraser, 6 count
Magnetic Stir Bar, 1 in
Mammal Compact Bone Microscope Slide, I.s., H and E
Mammal Spongy Bone Microscope Slide
Masking tape, 1 in x 60 yd, 9 pack
Meter Stick, Wood, Case of 6
Microcentrifuge Tube Rack, 20 well, 6 pack
Microscope, binocular, 100 x Objective
Microwave, 1.1 cubic foot, 1000 watt
Modeling clay, 4 colors, 1 lb, pk/6 -not for use w/ Manikens

Natural Skeletal Structures - Elbow Joint
Natural Skeletal Structures - Longitudinal Section of Bone
Oven gloves, terry cloth, 1 pair
Pack of 100 Sterile Alcohol Pads
Pack of 50 Assorted Balloons
Percussion Hammer, 7 1/2 inch
Permanent Black Marker, 12 pack
pH Paper in Dispenser, 1/2" x 50', with Color Chart
Pig Kidney, Preserved, 10-pack
Pipe Cleaners, 12 inch, 100 pack
Plastic Flashlight, batteries not included
Plastic Wrap Roll
PLTW Custom Simulated ABO & Rh Blood Typing Kit (HBS 5.3.2)
PLTW Custom Simulating Urinalysis Lab by Ward's
PLTW DNA Detectives Kit by Edvotek (HBS 1.3.1)
PLTW High School Basic Lab Journal - 30 pack
Pony Beads, 1000 pack, assorted colors
Poster Board, White, 22 x 28 inch, 25 pack
Powder-Free Disposable Nitrile Gloves, Large - 100 pack
QuadraSource Power Supply, for electrophoresis units
Red Spirit-Filled Thermometers, -20 to +150 degrees, 25 pack
Return address labels, 1/2 inch x 1.75 inch, 25 sheets
Rubber Bands, 1/4 lb, Assorted
Rubber Laboratory Apron, 27 inch x 42 inch, case of 25
Ruler, Clear Plastic, 12 inch / 31 cm, metric and English
Ruler, Clear Plastic, 15 CM / 6 IN, 10 pack
Safety Goggles, Anti-fog Indirect Vent, 10 pack
Sanitizing Cabinet, Thirty-Five Goggle Capacity
Scientific Calculator, any brand
Scissors, 7 inch, plastic handle, pointed tip
SD Card, 8 GB+ (for use with digital camera)
Self-healing cutting mat - 11.8 in x 8.7 in - pack of 6
Set of 4 dry erase markers
Sheep Brains, Carolina Formalin Preserved, Bag of 10
Sherlock Bones: African Female (Bone Set Only)
Sherlock Bones: Skeletal Remains (Caucasian Male Full Kit)
Sodium Hydroxide, 500 mL
Sticky Notes, Small 1.5 inch x 2 inch, 12 pack
Stirring Rods, 12 pack
Student Dry Erase Whiteboards, 1 cm grid, 30 pack
Student Grade Economy Microscope Slides, 72 pack
Styrofoam ball, 1 inch, 16 pack
Styrofoam ball, 2 inch, 12 pack
Styrofoam ball, 3 inch, 6 pack
Styrofoam block, 3 inch cubed, 24 pack
Support Stand with Rod and Base
Surviving the Extremes, Paperback book

Swim Cap, Latex-free silicone, light color
Tape Flags, 1/2 inch, 4 colors, 140 count
Tape measure, steel, 25 foot with thumb lock
Test Tube Brushes, 12 pack
Test Tube Clamp (Stoddard Clamp)
Test Tube Rack, polypropylene, 12 well, 5 peg
Test Tubes, 72 pack, 20 mm x 150 mm
Toothpicks, round, 250 count, plain
Transparent tape, 1 roll
Urine Reagent Strips, 100 pack
Vernier 25G Accelerometer
Vernier Disposable Bacterial Filter, 30 pack
Vernier Disposable Mouth Piece, 30 pack
Vernier EKG Electrodes
Vernier EKG Sensor
Vernier Gas Pressure Sensor
Vernier Go! Link
Vernier Hand Dynamometer
Vernier LabQuest Mini
Vernier Noseclip, 30 Pack
Vernier pH Buffer Capsules (3 x 10)
Vernier Spirometer
Ward's ATP Muscle Kit (HBS 4.2.4)
Ward's Complete Blood Pressure Kit PBS 4.2.2, HBS 4.3.5
Ward's Mammalian Muscle Composite Slides, 3 types
Ward's Science Pipet Fillers, 50 mL Capacity
Ward's Science Small Latex Bulbs, 72 pack, 1 mL Capacity
Ward's Student Dissecting Set PBS 4.1.2, HBS 2.4.1, BI 7.1.1
WARDS Artificial Urine, 500 mL
Wards Digital Waterbath, 2.0 L
Washing Bottle with Trigger Sprayer, 500 mL capacity
Weigh Dish, 500 pack
White Glue, 4 oz, 4 pack
White Light Illuminator



Medical Interventions Recommended Equipment List

Note: Quantities of these items are determined by course enrollment numbers; please consult the PLTW site for specific quantities needed for your campus.

Acetone, Lab Grade, 500 mL
Adult Skin, Microscope Slide
Agarose Powder, 25g, ingredient to make Electrophoresis gels
ANATOMY IN CLAY EZ-Squeeze Handle with Clay Extruder
ANATOMY IN CLAY Learning System, PLTW Instructor Kit
ANATOMY IN CLAY Learning System, PLTW Student Kit
Aquasonic Gel, 250 mL
Artery, vein and capillary, Cs histology slides
Beakers, 100 mL, 12 pack
Beakers, 1000 mL, 6 pack
Beakers, 250 mL, 12 pack
Beakers, 50 mL, 12 pack
Bleach, 1 gallon, unscented
Broken Bones X-rays
Buret Clamps, 1 3/8 inch Opening
Carolina Visual Perception Kit (HBS 2.4.2)
Catalase, Laboratory, Powder, 5 g
Cell Zone Molecular Puzzle (PBS 2.2.3, HBS 3.2.6)
Coffee Stir Sticks, 1000 pack, 5.25 inch
Colored Pencils, 12 pack
Colored permanent markers, 8 pack
Construction paper, 12" x 18", 50 pack
Cotton string, 400 ft.
Cow Eyes, Preserved, 10 pack
Craft Pom-Poms - pack of 240
Craft Sticks, 1000 pack
D Cell Battery, pack of 6 for flashlights
Digital Camera, 10.0 Megapixel
Disposable Serological Pipets, 10mL, .1mL markings, 200 pack
Disposable Soda Lime Glass Pipets, 9 inch, 250 pack
Disposable Transfer Pipets, Narrow Stem, 500 pack
Dissecting Forceps, Stainless Steel , 4 1/2 inch, 10 pack
Dissection Tray, Wax Lined
Distilled Water, 1 gallon
DNA DuraGel, Simulated Agarose Gel Practice , 6 pack

Easel Pad, 20 in x 30 in, sticky top 30 sheet, 2 pack
Edvotek M12 Complete Electrophoresis Package
Edvotek Micropipet, Digital, 0.5 - 10 ul
Edvotek Micropipet, Digital, 10-100 ul
Edvotek Pipet Tips, 0.5-10 uL, 10 x racks of 96 tips
Edvotek Yellow Pipet Tips, 1-200 uL, 10 x racks of 96 tips
Electronic Balance, 500 g, 0.1 g Readability
Erlenmeyer Flask, Narrow neck, 250 mL, 12 pack
Erlenmeyer Flask, Narrow neck, 500 mL, 6 pack
Erlenmeyer Flasks, 1000 mL, 6 pack
Erlenmeyer Flasks, 125 mL, 12 pack
Erlenmeyer Flasks, 50 mL, 12 pack
Fetal Doppler
Floating Microtube Rack Polypropylene rack
Florist wire, 22 gauge, 100 feet, 2 pack
Food Storage Containers with lid, 2 pack
Forceps, Fine-Point with Guide Pin, 4 1/2 inch, 10 pack
Glass Cover Slips, 18 mm x 18 mm, 100 pack
Glass Dropping Bottles, 15 mL, 12 pack
Glue stick (.28oz), 24 pack
Goniometer, 12", 360 degrees
Graduated Cylinder, 10 mL, 0.2 mL Graduations, 5 pack
Graduated Cylinder, 1000 mL
Graduated Cylinder, 250 mL
Graduated Cylinder, 50 mL, Polypropylene, 5 pack
HBS Professional Development Registration
Highlighters, 2 pack, 2 colors
Histology of Mammalia, Basic Set, 25 slides
Hot Plate Stir Plate, 7 in x 7 in surface, 100-120V
Human Blood Film Smear Slides, Wright's Stain
Human Eye Model
Human: Pushing the Limits DVD Set
Hydrochloric Acid, 0.1 M, 1 liter
Hydrogen Peroxide, 3%, 3.8 L
Hydrogen Peroxide, 6%, 3.8 L
Immersion Oil, Type B, 1 oz
Interlocking Cubes, 500 pack
Magic Eraser, 6 count
Magnetic Stir Bar, 1 in
Mammal Compact Bone Microscope Slide, I.s., H and E
Mammal Spongy Bone Microscope Slide
Masking tape, 1 in x 60 yd, 9 pack
Meter Stick, Wood, Case of 6
Microcentrifuge Tube Rack, 20 well, 6 pack
Microscope, binocular, 100 x Objective
Microwave, 1.1 cubic foot, 1000 watt
Modeling clay, 4 colors, 1 lb, pk/6 -not for use w/ Manikens

Natural Skeletal Structures - Elbow Joint
Natural Skeletal Structures - Longitudinal Section of Bone
Oven gloves, terry cloth, 1 pair
Pack of 100 Sterile Alcohol Pads
Pack of 50 Assorted Balloons
Percussion Hammer, 7 1/2 inch
Permanent Black Marker, 12 pack
pH Paper in Dispenser, 1/2" x 50', with Color Chart
Pig Kidney, Preserved, 10-pack
Pipe Cleaners, 12 inch, 100 pack
Plastic Flashlight, batteries not included
Plastic Wrap Roll
PLTW Custom Simulated ABO & Rh Blood Typing Kit (HBS 5.3.2)
PLTW Custom Simulating Urinalysis Lab by Ward's
PLTW DNA Detectives Kit by Edvotek (HBS 1.3.1)
PLTW High School Basic Lab Journal - 30 pack
Pony Beads, 1000 pack, assorted colors
Poster Board, White, 22 x 28 inch, 25 pack
Powder-Free Disposable Nitrile Gloves, Large - 100 pack
QuadraSource Power Supply, for electrophoresis units
Red Spirit-Filled Thermometers, -20 to +150 degrees, 25 pack
Return address labels, 1/2 inch x 1.75 inch, 25 sheets
Rubber Bands, 1/4 lb, Assorted
Rubber Laboratory Apron, 27 inch x 42 inch, case of 25
Ruler, Clear Plastic, 12 inch / 31 cm, metric and English
Ruler, Clear Plastic, 15 CM / 6 IN, 10 pack
Safety Goggles, Anti-fog Indirect Vent, 10 pack
Sanitizing Cabinet, Thirty-Five Goggle Capacity
Scientific Calculator, any brand
Scissors, 7 inch, plastic handle, pointed tip
SD Card, 8 GB+ (for use with digital camera)
Self-healing cutting mat - 11.8 in x 8.7 in - pack of 6
Set of 4 dry erase markers
Sheep Brains, Carolina Formalin Preserved, Bag of 10
Sherlock Bones: African Female (Bone Set Only)
Sherlock Bones: Skeletal Remains (Caucasian Male Full Kit)
Sodium Hydroxide, 500 mL
Sticky Notes, Small 1.5 inch x 2 inch, 12 pack
Stirring Rods, 12 pack
Student Dry Erase Whiteboards, 1 cm grid, 30 pack
Student Grade Economy Microscope Slides, 72 pack
Styrofoam ball, 1 inch, 16 pack
Styrofoam ball, 2 inch, 12 pack
Styrofoam ball, 3 inch, 6 pack
Styrofoam block, 3 inch cubed, 24 pack
Support Stand with Rod and Base
Surviving the Extremes, Paperback book

Swim Cap, Latex-free silicone, light color
Tape Flags, 1/2 inch, 4 colors, 140 count
Tape measure, steel, 25 foot with thumb lock
Test Tube Brushes, 12 pack
Test Tube Clamp (Stoddard Clamp)
Test Tube Rack, polypropylene, 12 well, 5 peg
Test Tubes, 72 pack, 20 mm x 150 mm
Toothpicks, round, 250 count, plain
Transparent tape, 1 roll
Urine Reagent Strips, 100 pack
Vernier 25G Accelerometer
Vernier Disposable Bacterial Filter, 30 pack
Vernier Disposable Mouth Piece, 30 pack
Vernier EKG Electrodes
Vernier EKG Sensor
Vernier Gas Pressure Sensor
Vernier Go! Link
Vernier Hand Dynamometer
Vernier LabQuest Mini
Vernier Noseclip, 30 Pack
Vernier pH Buffer Capsules (3 x 10)
Vernier Spirometer
Ward's ATP Muscle Kit (HBS 4.2.4)
Ward's Complete Blood Pressure Kit PBS 4.2.2, HBS 4.3.5
Ward's Mammalian Muscle Composite Slides, 3 types
Ward's Science Pipet Fillers, 50 mL Capacity
Ward's Science Small Latex Bulbs, 72 pack, 1 mL Capacity
Ward's Student Dissecting Set PBS 4.1.2, HBS 2.4.1, BI 7.1.1
WARDS Artificial Urine, 500 mL
Wards Digital Waterbath, 2.0 L
Washing Bottle with Trigger Sprayer, 500 mL capacity
Weigh Dish, 500 pack
White Glue, 4 oz, 4 pack
White Light Illuminator



Biomedical Innovation Recommended Equipment List

**Note: Quantities of these items are determined by course enrollment numbers;
please consult the PLTW site for specific quantities needed for your campus.**

Agarose Powder, 25g, ingredient to make Electrophoresis gels
Alcohol Burners, 3.5 oz/100 mL
Aquasonic Gel, 250 mL
Beakers, 100 mL, 12 pack
Beakers, 1000 mL, 6 pack
Beakers, 250 mL, 12 pack
Beakers, 50 mL, 12 pack
Bleach, 1 gallon, unscented
Bone Cutting Shears, 5 1/2 inch
Buret Clamps, 1 3/8 inch Opening
Butane Lighter
Carolina Forensic Dissection Kit for a class of 32 (BI 7.1.1
Clostridium botulinum Microscope Slide, w.m.
Colored permanent markers, 8 pack
Craft Sticks, 1000 pack
Digital Camera, 10.0 Megapixel
Digital Shaking 10 L Waterbath
Disposable Serological Pipets, 10mL, .1mL markings, 200 pack
Disposable Soda Lime Glass Pipets, 9 inch, 250 pack
Disposable Transfer Pipets, Narrow Stem, 500 pack
Dissecting Forceps, Stainless Steel , 4 1/2 inch, 10 pack
Dissection Tray, Wax Lined
Distilled Water, 1 gallon
DNA DuraGel, Simulated Agarose Gel Practice , 6 pack
Easel Pad, 20 in x 30 in, sticky top 30 sheet, 2 pack
EdvoCycler2, Classroom Thermal Cycler
Edvotek Blue Pipet Tips, 100-1000 uL, 6 x racks of 100 tips
Edvotek M12 Complete Electrophoresis Package
Edvotek Micropipet, Digital, 0.5 - 10 ul
Edvotek Micropipet, Digital, 10-100 ul
Edvotek Micropipet, Digital, 100-1000 ul
Edvotek Pipet Tips, 0.5-10 uL, 10 x racks of 96 tips
Edvotek TruBlu Blue Light Transilluminator
Edvotek Water Quality Testing I Kit (BI 4.1.2)
Edvotek Water Quality Testing III Kit (BI 4.1.2)

Edvotek Yellow Pipet Tips, 1-200 uL, 10 x racks of 96 tips
Electronic Balance, 500 g, 0.1 g Readability
Erlenmeyer Flask, Narrow neck, 250 mL, 12 pack
Erlenmeyer Flask, Narrow neck, 500 mL, 6 pack
Erlenmeyer Flasks, 1000 mL, 6 pack
Erlenmeyer Flasks, 50 mL, 12 pack
Ethyl Alcohol, 95%, 500mL, Denatured (also known as Ethanol)
Fetal Doppler
Floating Microtube Rack Polypropylene rack
Food Storage Containers with lid, 2 pack
Forceps, Fine-Point with Guide Pin, 4 1/2 inch, 10 pack
Formalin Fetal Pig, 14 inch, Plain, 1 Per Bag
Glass Cover Slips, 18 mm x 18 mm, 100 pack
Glass Dropping Bottles, 15 mL, 12 pack
Glue stick (.28oz), 24 pack
Goniometer, 12", 360 degrees
Graduated Cylinder, 10 mL, 0.2 mL Graduations, 5 pack
Graduated Cylinder, 1000 mL
Graduated Cylinder, 250 mL
Graduated Cylinder, 50 mL, Polypropylene, 5 pack
Heavy Duty Aluminum Foil
Highlighters, 2 pack, 2 colors
Hot Plate Stir Plate, 7 in x 7 in surface, 100-120V
Hydrochloric Acid, 0.1 M, 1 liter
Immersion Oil, Type B, 1 oz
Inoculating Loops and Needles, Sterile, 250 pack
Isopropyl Alcohol, 99%, 3.8 L
Lab Incubator, 0.7 cu. ft.
Lawn fertilizer with nitrogen, less than 1 cup
Lung Section Microscope Slide
Magnetic Stir Bar, 1 in
Masking tape, 1 in x 60 yd, 9 pack
Meter Stick, Wood, Case of 6
Microcentrifuge Tube Rack, 20 well, 6 pack
Microcentrifuge Tubes, 500 pack
Microcentrifuge, High Speed 9800 xG
Microscope, binocular, 100 x Objective
Microwave, 1.1 cubic foot, 1000 watt
Mini Longwave UV Lamp, UVP, 365 nm
Mohrs Pinchcock Clamp for Tubing, 10 pack
Oven gloves, terry cloth, 1 pair
Pack of 100 Sterile Alcohol Pads
Percussion Hammer, 7 1/2 inch
Permanent Black Marker, 12 pack
pH Paper in Dispenser, 1/2" x 50', with Color Chart
Plastic Resealable Bags, 4 mL, Pack of 100
Plastic Wrap Roll

PLTW High School Basic Lab Journal - 30 pack
Poster Board, White, 22 x 28 inch, 25 pack
Powder-Free Disposable Nitrile Gloves, Large - 100 pack
QuadraSource Power Supply, for electrophoresis units
Radish Seeds, package of 1200
Red Spirit-Filled Thermometers, -20 to +150 degrees, 25 pack
Return address labels, 1/2 inch x 1.75 inch, 25 sheets
Roll of Paper Towels
Rubber Laboratory Apron, 27 inch x 42 inch, case of 25
Ruler, Clear Plastic, 12 inch / 31 cm, metric and English
Ruler, Clear Plastic, 15 CM / 6 IN, 10 pack
Safety Goggles, Anti-fog Indirect Vent, 10 pack
Sanitizing Cabinet, Thirty-Five Goggle Capacity
Scientific Calculator, any brand
Scissors, 7 inch, plastic handle, pointed tip
SD Card, 8 GB+ (for use with digital camera)
Set of 4 dry erase markers
Sodium Chloride, 500g
Sodium Hydroxide, 500 mL
Sticky Notes, Small 1.5 inch x 2 inch, 12 pack
Stirring Rods, 12 pack
Straws, straight, 100 pack
Student Grade Economy Microscope Slides, 72 pack
Styrofoam block, 3 inch cubed, 24 pack
Support Stand with Rod and Base
Test Tube Brushes, 12 pack
Test Tube Clamp (Stoddard Clamp)
Test Tube Rack, polypropylene, 12 well, 5 peg
Test Tubes, 72 pack, 20 mm x 150 mm
Transparent tape, 1 roll
Triangular Map Flags, Assorted 75 pack
Vernier 25G Accelerometer
Vernier Blood Pressure Sensor
Vernier Disposable Bacterial Filter, 30 pack
Vernier Disposable Mouth Piece, 30 pack
Vernier EKG Electrodes
Vernier EKG Sensor
Vernier Gas Pressure Sensor
Vernier Go! Link
Vernier Hand Dynamometer
Vernier Hand Grip Heart Rate Monitor
Vernier LabQuest Mini
Vernier Noseclip, 30 Pack
Vernier Respiration Monitor Belt
Vernier Spirometer
Vernier Surface Temperature Sensor
Ward's Complete Blood Pressure Kit PBS 4.2.2, HBS 4.3.5

Ward's Science Pipet Fillers, 50 mL Capacity
Ward's Science Small Latex Bulbs, 72 pack, 1 mL Capacity
Ward's Student Dissecting Set PBS 4.1.2, HBS 2.4.1, BI 7.1.1
Washing Bottle with Trigger Sprayer, 500 mL capacity
Water Pollution Kit (BI 4.1.3)
Weigh Dish, 500 pack
White Glue, 4 oz, 4 pack
White Light Illuminator
Wooden dowels, square, 1/4 inch x 12 inch, 12 pack
Wooden round dowel, 1/4 inch x 12 inch, 12 pack
World Map, M Series, 50 inch x 32 inch