**PLTW Biomedical Science**

**Course Syllabus 2023-2024**

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**Textbooks**- Online: PLTW Biomedical Science Curriculum; PBS, HBS

**WELCOME TO PLTW PRINCIPLES OF BIOMEDICAL SCIENCE AND**

**HUMAN BODY SYSTEMS!**

**First Marking Period: Principles of Biomedical Science**

**August**

29 Introduction of class, book distribution, syllabus

curriculum and lab orientation

UNIT 1: The Medical Investigation; Lesson 1.1

**September**

5 Lesson 1.1 Investigating the Scene

11 Lesson 1.1

18 Lesson 1.2 Master the Morgue

25 **CPR BEGINS (date may change)**

# October

**PROGRESS REPORTS First week of October, 2023**

2 CPR/AED Certification (subject to change)

9 UNIT 2: Clinical Care Lesson 2.1

16 Lesson 2.1 Talk to Your Doctor

23 Lesson 2.1

30 Lesson 2.2 Decoding a Diagnosis

**FIRST QUARTER ENDS**

**Second Marking Period**

**November**

6 Lesson 2.3 A new Patient

13 Unit 3 Outbreaks and Emergencies Lesson 3.1

**24 Fall Break 11/20/23-11/24/2023**

27 Lesson 3.1 Nosocomial Nightmare

**December**

4 Lesson 3.2 Emergency Response

11 Lesson 3.3 Information Sharing

18 Unit 4 Innovation, Inc. Lesson 4.1

### Blood Drive December 7, 2023 (subject to change)

### PROGRESS REPORTS DUE second week of December, 2023

**Winter Break 12/25/23-1/1/23**

**Welcome Back!**

**2024**

**SECOND QUARTER ENDS**

**Third Marking Period: Human Body Systems**

**January**

2 Unit 1 Identity:Lesson 1.1

8 Lesson 1.1 Identity, Human; Lesson 1.2 Identity, Tissues

16 Lesson 1.3 Identity, Molecules and Cells

22 UNIT 2 Communication Lesson 2.1 The brain

29 Lesson 2.2 Electrical Communication

**SKILLS USA Competitions**

**February**

5 Lesson 2.3 Chemical Communication, Lesson 2.4 Communication with the

outside world

12 UNIT 3 Power, Lesson 3.1 Introduction to Power; Lesson 3.2 Food

20 Lesson 3.3 Oxygen

26 Lesson 3.4 Water

**PROGRESS REPORTS DUE first week of MARCH, 2024**

**March**

4 UNIT 4 Movement Lesson 4.1 Joints and Motion; Lesson 4.2 Muscles

11Lesson 4.3 Blood Flow

18Lesson 4.4 Energy and Motion, exercise physiology

25 Lesson 4.4 Energy and Motion

**THIRD QUARTER ENDS / PROGRESS REPORTS**

**Fourth Marking Period**

**SPRING BREAK March 27-April 1**

**HOSA STATE CHAMPIONSHIPS, April 2024**

**April**

2 UNIT 5 Protection Lesson 5.1 The Skin

8 Lesson 5.2 The Bones

15 Lesson 5.3 Lymph and Blood

22 Lesson 5.3 Lymph and Blood

29 UNIT 6 Homeostasis Lesson 6.1 Health and Wellness

**PROGRESS REPORTS DUE first week of May, 2022**

**May**

6 Lesson 6.1 Health and Wellness

13 PLTW HBS Review

20 PLTW HBS Review

28 PLTW End of Course Assessment

May 2024 Spring-Ford Health Fair Preparation/Presentation TBA

**June**

3 **SENIORS LAST WEEK!**

**4th QUARTER ENDS/PROGRESS REPORTS**

**HAPPY SUMMER!**

**TBA:** Clinical site visits will be arranged throughout the year depending on permission and availability of facilities.