

The Human Body- 11th Grade

Content Area: **Health**
Course(s): **First Aid, OTP Health**
Time Period: **year**
Length: **40 weeks**
Status: **Published**

Unit Overview

This unit is designed to introduce students to the important systems of the human body and discuss the treatment and prevention of common diseases of the human body.

Transfer

Students will be able to independently use their learning to...

- identify the major organs and tissue of the body and their function.
- identify and give examples of the 5 senses.
- describe the major systems of the body.
- explain the major diseases of the human body and how they are treated and prevented.

-What kinds of long term, independent accomplishments are desired?

Students should be able to describe how the different parts of the body work and what they are for.

Students should be able to describe the 5 senses and give examples of each.

Students should be able to describe how the digestive system, respiratory system, circulatory system and nervous system work.

Students should be able to identify major diseases of the human body and how to treat and/or prevent them.

For more information, read the following article by Grant Wiggins.

Meaning

Understandings

Students will understand that...

The organs and systems in the body all work together to make a human function.

Each system of the body has a specific purpose.

If a part of the body malfunctions, it can cause illness or disease.

There are things we can do to prevent and treat diseases of the body.

-What inferences should they make/grasp/realize?

The human body is complex.

There are many organs, tissues and systems in the body that all must work together for the body to function.

We must take care of our bodies to prevent illness and disease.

Essential Questions

Students will keep considering...

the organs and systems of the body all need to work together to make the human body function.

-What thought provoking questions will foster inquiry, meaning making and transfer?

What is a tissue? What is an organ?

What is the control center of the body?

What are the five sense organs? What does each of them do? Why are they important? What is the nervous system?

What do our bones and muscles do?

What is the digestive system? What does it do?

What is the respiratory system? What does it do?

What is the circulatory system? What does it do?

What is the reproductive system? What does it do?

What are some common diseases and disorders of the human body and how are they treated and prevented?

Application of Knowledge and Skill

Students will know...

Students will know...

the major organs and systems of the body, their purpose and how they function.

the systems of the body must all work together for the body to work properly.

that disease can sometimes be prevented.

diseases that are not preventable can be treated much of the time.

What facts and basic concepts should students know and be able to recall?

Students should be able to name and describe the function of all the major organs in the human body.

Students should be able to name and describe common diseases of the human body, how to prevent them

and/or how to treat them.

Students will be skilled at...

Students will be skilled at...

Explaining the function of the major organs and systems of the human body.

Explaining the disease of the human body and how they can be treated and/or prevented.

Academic Vocabulary

- | | | | | |
|-------------------------|----------------|-----------------|---------------------|--------------|
| 1. head | 11. pupil | 21. tooth-teeth | 31. back | 37. buttocks |
| 2. hair | 12. cornea | 22. tongue | 32. arm | 38. leg |
| 3. forehead | 13. ear | 23. chin | 33. armpit | 39. thigh |
| 4. temple | 14. earlobe | 24. sideburn | 34. elbow | 40. knee |
| 5. face | 15. nose | 25. mustache | 35. waist | 41. calf |
| 6. eye | 16. nostril | 26. beard | 36. hip | 42. shin |
| 7. eyebrow | 17. cheek | 27. neck | | |
| 8. eyelid | 18. jaw | 28. shoulder | | |
| 9. eyelashes | 19. mouth | 29. chest | | |
| 10. iris | 20. lip | 30. abdomen | | |
| | | | | |
| 43. hand | 53. foot | 61. brain | 67. heart | 73. muscle |
| 44. wrist | 54. ankle | 62. throat | 68. liver | 74. bone |
| 45. thumb | 55. heel | 63. esophagus | 69. gallbladder | 75. pancreas |
| 46. (index) finger | 56. toe | 64. windpipe | 70. stomach | 76. kidney |
| 47. middle finger | 57. little toe | 65. spinal cord | 71. large intestine | 77. bladder |
| 48. ring finger | 58. big toe | 66. lungs | 72. small intestine | 78. vein |
| 49. pinky/little finger | 59. toenail | | | 79. artery |
| 50. palm | 60. skin | | | |
| 51. fingernail | | | | |
| 52. knuckle | | | | |

Human Body System Vocabulary Words

Skeletal & Muscular Systems

Skeletal System-

Muscular System-

Joint-

Cartilage-

Ligament-

Tendon-

Skin/ Integumentary System

Epidermis-

Melanin-

Pores-

Dermis-

Follicles-

Ultraviolet Rays-

Nervous System

Neuron-

Central Nervous System-

Peripheral Nervous System-

Brain-

Spinal Cord-

Digestive System-

Digestion-

Digestive System-

Saliva-

Small Intestine-

Liver-

Pancreas-

Circulatory System

Circulatory System-

Artery-

Vein-

Capillary-

Plasma-

Blood Pressure-

Red Blood Cells-

White Blood Cells-

Platelets-

Respiratory System

Respiratory System-

Trachea-

Bronchi-

Diaphragm-

Excretory/ Urinary System

Kidneys-

Bladder-

Cancer

Diabetes

Heart Disease

Stroke

COPD

Alzheimer's Disease

Cold

Flu

Chicken Pox

Hepatitis

HIV/AIDS

Learning Goal 1

- Identify the major organs and systems of the human body and their function.

SCI.9-12.EE.HS-LS1-1.I

Identify major organs of the body.

SCI.9-12.EE.HS-LS1-1.P

Indicate the function of major organs of the body.

Target 1

- Students will be able to name the major organs and systems of the human body.

Target 2

- Students will be able to describe the function of the major organs and systems of the human body.

Learning Goal 2

- Identify the major diseases of the human body and indicate prevention and/or treatment for them.

HPE.2.1.12.C.1

Determine diseases and health conditions that may occur during one's lifespan and identify prevention and treatment strategies.

Target 1

- Students will be able to identify common diseases and illnesses that occur in the body.

Target 2

- Students will be able to describe disease prevention strategies and list treatment options for common diseases of the human body.

Summative Assessment

* Notebooks

* Quizzes

* Tests

* Projects

- * Benchmark

21st Century Life and Careers

CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.
CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP3	Attend to personal health and financial well-being.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP7	Employ valid and reliable research strategies.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP11	Use technology to enhance productivity.
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.

Formative Assessment and Performance Opportunities

- * Teacher observation
- * Class participation
- * Discussions
- * Homework
- * Notebook

Differentiation/Enrichment

- * Modifications as per IEP/ 504 plans
- * Google classroom resources (powerpoint, guided notes)
- * Small group activities
- * Reteaching opportunities in textbook
- * Directed reading
- * Inclusion strategies in textbook
- * Motivating activities in textbook

Unit Resources

- Glencoe Health: Ninth Edition
- Powerpoints
- Related internet resources
- Topic related videos
- Topic related worksheets