

Orange School District



Medical Terminology I & II

**Curriculum Guide – Grades 10, 11
2011 Edition**

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Philosophy

Recognizing medical terminology is a foundational necessity for students entering any health career, it is our goal to provide our students with a solid background in an interesting and relevant perspective that can be enjoyable to study. To this end, the use of many interesting paradigms, demonstrations - live or computer generated, and other hands-on activities are an integral part of this course. The goal throughout the course is to foster a solid understanding of medical language that can serve as a foundation for future learning in allied and professional health careers.

Purpose and Vision

The medical terminology curriculum is designed to enhance student language capabilities that began in grades K-9. It is geared toward those students who plan to pursue post-secondary study in allied or professional health careers because they must know how to reason, think critically, make decisions, solve problems, and communicate effectively. Quality health care depends upon each person's ability to work well with others, and this requires a firm understanding of medical language. The curriculum provides a solid foundation in medical terminology through the use of textbooks, workbooks, word games, internet, and other resources. Upon completion of medical terminology, students will be able to use a medical terminology to engage in meaningful conversations with medical workers, to understand and interpret spoken and written language, and to present information, concepts, and ideas.

By the end of the course, the student will be able to identify, spell, pronounce and define root words, prefixes and suffixes common to medical careers. They will be able to combine these word parts to form real medical terms and they will be able to dissect complex medical words in order to define them. The student will also be able to use common abbreviations and appropriate reference materials.

Careers related to medicine, research, health-care and modern medical technology are emphasized throughout the curriculum.

Case studies concerning diseases, disorders and ailments (i.e. real-life applications) are used to reinforce learning and to stimulate inquiry.

The following standards are addressed in Medical Terminology I and II.

9.1 21st-Century Life & Career Skills: All students will demonstrate the creative, critical thinking, collaboration, and problem-solving skills needed to function successfully as both global citizens and workers in diverse ethnic and organizational cultures.

9.3 Career Awareness, Exploration, and Preparation: All students will apply knowledge about and engage in the process of career awareness, exploration, and preparation in order to navigate the globally competitive work environment of the information age.

9.4 Career and Technical Education: All students who complete a career and technical education program will acquire academic and technical skills for careers in emerging and established professions that lead to technical skill proficiency, credentials, certificates, licenses, and/or degrees.

3.1 Reading: All students will understand and apply the knowledge of sounds, letters, and words in written English to become independent and fluent readers and will read a variety of materials and texts with fluency and comprehension.

3.2 Writing: All students will write in clear, concise, organized language that varies in content and form for different audiences and purposes.

3.3 Speaking: All students will speak in clear, concise, organized language that varies in content and form for different audiences and purposes.

3.4 Listening: All students will listen actively to information from a variety of sources in a variety of situations.

3.5 Viewing and Media Literacy: All students will view, evaluate, and respond to print, nonprint, and electronic texts and resources.

4.1 Number and Numerical Operations: All students will develop number sense and will perform standard numerical operations and estimations on all types of numbers in a variety of ways.

4.5 Mathematical Processes: All students will use mathematical processes of problem solving, communication, connections, reasoning, representations,

and technology to solve problems and communicate mathematical ideas.

5.1 Science Practices: All students will understand that science is both a body of knowledge and an evidence-based, model-building enterprise that continually extends, refines, and revises knowledge. The four Science Practices strands encompass the knowledge and reasoning skills that students must acquire to be proficient in science.

A. Understand Scientific Explanations: Students understand core concepts and principles of science and use measurement and observation tools to assist in categorizing, representing, and interpreting the natural and designed world.

C. Reflect on Scientific Knowledge: Scientific knowledge builds on itself over time.

5.3 Life Science: All students will understand that life science principles are powerful conceptual tools for making sense of the complexity, diversity, and interconnectedness of life on Earth. Order in natural systems arises in accordance with rules that govern the physical world, and the order of natural systems can be modeled and predicted through the use of mathematics.

A. Organization and Development: Living organisms are composed of cellular units (structures) that carry out functions required for life. Cellular units are composed of molecules, which also carry out biological functions.

B. Matter and Energy Transformations: Food is required for energy and building cellular materials. Organisms in an ecosystem have different ways of obtaining food, and some organisms obtain their food directly from other organisms.

C. Interdependence: All animals and most plants depend on both other organisms and their environment to meet their basic needs.

D. Heredity and Reproduction: Organisms reproduce, develop, and have predictable life cycles. Organisms contain genetic information that influences their traits, and they pass this on to their offspring during reproduction.

E. Evolution and Diversity: Sometimes, differences between organisms of the same kind provide advantages for surviving and reproducing in different environments. These selective differences may lead to dramatic changes in characteristics of organisms in a population over extremely long periods of time.

8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.



KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
<p>How can health care personnel communicate effectively in the workplace since they are dealing with the complexities of the human body and highly technical diagnostic and therapeutic equipment?</p> <p>What are the course requirements, expectations, attendance, and participation requirements?</p> <p>What safety precautions are necessary in the classroom and clinical areas?</p> <p>.</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p> <p>21st Century Life/Careers: 9.1, 9.3, 9.4</p>	<p>Medical Terminology is a specialized language that allows medical personnel to communicate efficiently and effectively in the workplace.</p> <p>Course syllabus and major objectives, grading, and student evaluation procedures. Discussion of the student learning goals and their relationship to the course and employability.</p> <p>Knowledge of proper safety precautions is a prerequisite to classroom and clinical learning explorations.</p> <p>Identify safety hazards commonly found in a variety of medical settings, including blood borne pathogens and hazardous waste.</p> <p>Review procedures to be followed relating to Standard/Universal Precautions.</p>	<p>Read and discuss policies and requirements for course. Discuss the teacher and student expectations for the course.</p> <p>Complete required forms, including personal biography.</p> <p>Discuss classroom safety, emergency and disaster procedures. Follow correct protocol for identifying and reporting safety problems and violations. Discuss ways to report a potential hazard to a supervisor. Complete a safety test based on workplace safety.</p>

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>Why are anatomic references systems needed to describe the location and function of body parts?</p> <p>What are the terms related to the structural organization of the body?</p> <p>Why is it necessary to understand genetics and mutation in the field of health care?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p>	<p>Anatomic terminology is basic to the understanding of human anatomy and physiology.</p> <ul style="list-style-type: none"> ➤ Regional terms ➤ Directional terms ➤ Body planes & Sections ➤ Body cavities <p>List the major components of the body</p> <p>Terms related to Body Cells, Tissues, and Organs</p> <ul style="list-style-type: none"> ➤ Epithelial Tissue <ul style="list-style-type: none"> ▪ Endocrine vs. exocrine tissue ➤ Connective tissue <ul style="list-style-type: none"> ▪ Bone, Cartilage, Fibrous, Blood ➤ Muscle Tissue <ul style="list-style-type: none"> ▪ Skeletal, Smooth, Cardiac ➤ Nervous Tissue <ul style="list-style-type: none"> ▪ Neurons, Glial Cells <p>Terminology related to Genetic and Congenital disorders</p>	<p>Define anatomy and physiology.</p> <p>Use anatomic reference systems to identify the anatomic position, body planes, directions and cavities.</p> <p>Analyze, define, spell, and pronounce medical terms related to the body structure, body regions, body planes, directions, and cavities.</p> <p>List and identify basic word elements related to anatomy and physiology of the body structure, including cells, tissues, and glands.</p> <p>Analyze, define, spell, and pronounce medical terms related to anatomy and physiology of the body structure, including cells, tissues, and glands.</p> <p>Analyze, define, spell, and pronounce medical terms relating to diagnostic procedures and clinical procedures associated with the body structure.</p> <p>Recall the pronunciation, spelling, and definition of standard and common abbreviations related to the body structure.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p> <p>Define and discuss mutation, genetic engineering, genetic counseling,</p>

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>21st Century Life/Careers: 9.1, 9.3, 9.4</p> <p>What terms are specific to the integumentary system and its functions?</p> <p>How can we better understand terms related to diseases of the integumentary system?</p> <p>How can we dissect words related to the integumentary system so that we can better pronounce, spell, and define them?</p> <p>What clinical procedures are used to diagnose problems related to the integumentary system?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p>	<p>Terms related to the Integumentary System, its structure & function: Skin Hair Nails</p> <p>Common Skin Diseases</p> <p>Body membranes: Epithelial, Cutaneous, Mucous, Serous</p>	<p>congenital disorders. Analyze, define, spell, and pronounce medical terms relating to genetics and congenital disorders.</p> <p>Recognize, define, spell and pronounce terms related to types of diseases and disease transmission.</p> <p>List the major components of the integumentary system.</p> <p>List and identify basic word elements related to anatomy and physiology of the integumentary system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the integumentary system.</p> <p>Discuss the use of medical terms in relation to the integumentary system.</p> <p>Analyze, define, spell, and pronounce medical terms relating the integumentary system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the integumentary system.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the integumentary system.</p>

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<p>Technology: 8.1</p> <p>21st Century Life/Careers: 9.1, 9.3, 9.4</p> <p>What terms are related to the structure of the skeletal system?</p> <p>What terms are related to the structure of individual bones?</p> <p>What terms are related to functions of the skeletal system?</p> <p>What terms describe how bones are formed and maintained?</p> <p>What diseases are associated with the skeletal system?</p> <p>What injuries are associated with the skeletal system?</p> <p>What terms describe how a bone heals?</p> <p>What clinical procedures are used to diagnose problems related to the skeletal system?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>21st Century Life/Careers: 9.1, 9.3, 9.4</p>	<p>Skeletal System</p> <p>Terms used to describe structure and function of bones</p> <ul style="list-style-type: none"> ➤ Axial Skeleton - Identify major bones ➤ Appendicular Skeleton - Identify major bones <p>Names for types and parts of a bone</p> <p>Terms used for skeletal functions including support, protection, movement, storage and blood cell formation</p> <p>Terminology to describe bone formation, growth & remodeling, bone markings</p> <p>Articulations including synovial, fibrous, and immovable.</p> <p>Pathology of the skeletal system.</p> <p>Diagnostic and treatment procedures, including surgery, related to the skeletal system.</p>	<p>Utilize standard and common abbreviations related to the skin, hair, nails and mucous membranes common in medical clerical and clinical areas.</p> <p>List the major components of the skeletal system.</p> <p>List and identify basic word elements related to anatomy and physiology of the skeletal system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the skeletal system.</p> <p>Discuss the use of medical terms in relation to the skeletal system.</p> <p>Define major pathological conditions of the skeletal system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the skeletal system.</p> <p>Recall the pronunciation, spelling, and definition of standard and common abbreviations related to the skeletal system.</p> <p>Utilize standard and common abbreviations related to the skeletal system used in medical clerical and clinical areas.</p>

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<p>What terms are specifically related to the structure of muscular system?</p> <p>What terms relate to muscle contraction and specific motions?</p> <p>What diseases are associated with the muscular system?</p> <p>What clinical procedures are used to diagnose problems related to the muscular system?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p> <p>21st Century Life/Careers:</p>	<p>Muscular System</p> <ul style="list-style-type: none"> ➤ Structure ➤ Movement <p>3 types of muscle tissue</p> <ul style="list-style-type: none"> ➤ Skeletal, Smooth, Cardiac <p>Functions: movement, maintaining posture, stabilizing joints, generating heat</p> <p>Terms related to anatomy of a skeletal muscle</p> <p>Terms relate to function of skeletal muscles</p> <p>Muscle Contraction and Relaxation</p> <p>Muscle movements</p> <p>Flexion, extension, abduction, adduction, protraction, retraction, elevation, depression.</p> <p>Muscle identification</p> <p>Identify major muscles on a model or diagram</p> <p>Pathology of the muscular system.</p> <p>Diagnostic and treatment procedures, including surgery, related to the muscular system.</p>	<p>List the major components of the muscular system.</p> <p>List and identify basic word elements related to anatomy and physiology of the muscular system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the muscular system.</p> <p>Discuss the use of medical terms in relation to the muscular system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the muscular system.</p> <p>Recall the pronunciation, spelling, and definition of standard and common abbreviations related to the muscular system.</p> <p>Utilize standard and common abbreviations related to the muscular system used in medical clerical and clinical areas.</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
9.1, 9.3, 9.4		

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>What terms are used to describe the structure of the nervous system?</p> <p>What are the names of structures of the CNS and the PNS?</p> <p>What diseases are associated with the nervous system?</p> <p>What clinical procedures are used to diagnose problems related to the nervous system?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p> <p>21st Century Life/Careers:</p>	<p>Structure & function of the Nervous System Parts of the brain Parts of the spinal cord</p> <p>Sensory and motor pathways</p> <p>Names related to the central nervous system and peripheral nervous system; Divisions of each</p> <p>Autonomic nervous system – sympathetic and parasympathetic divisions</p> <p>Sense organs Terms related to the structure and function of each of the sense organs</p> <p>Pathology of the nervous system.</p> <p>Diagnostic and treatment procedures, including surgery, related to the nervous system.</p>	<p>Name the parts of the nervous system and discuss the function of each part.</p> <p>List and identify basic word elements related to anatomy and physiology of the nervous system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the nervous system.</p> <p>Discuss the use of medical terms in relation to the nervous system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the nervous system.</p> <p>Define major pathological conditions of the nervous system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the nervous system.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the nervous system.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
9.1, 9.3, 9.4		

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
<p>What are the terms used to describe certain organs that are specialized to allow for the input of very specific and detailed information?</p> <p>What pathological conditions affect these organs?</p> <p>What clinical procedures are used to detect and treat abnormalities of the eyes and ears?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p>	<p>Structures and Functions of the Eyes</p> <p>Disorders of the eye and the adnexa Diagnosis and Treatment of Eye Pathology</p> <p>Structures and Functions of the Ears Outer, Middle, and Inner</p> <p>Disorders of the Ears Diagnostic and Treatment of Ear Disorders</p>	<p>List the major components of the special senses, especially the eyes and ears.</p> <p>List and identify basic word elements related to anatomy and physiology of the senses.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the senses.</p> <p>Discuss the use of medical terms in relation to the senses.</p> <p>Analyze, define, spell, and pronounce medical terms relating to pathology of the sensory organs.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the senses.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the senses.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
21st Century Life/Careers: 9.1, 9.3, 9.4		

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>Why is the endocrine system important?</p> <p>What are the names of the glands in the endocrine system?</p> <p>What are the names of the hormones secreted by each of the glands?</p> <p>What are the major functions of the specific glands?</p> <p>What pathology is associated with the endocrine system?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p> <p>21st Century Life/Careers: 9.1, 9.3, 9.4</p>	<p>Overview of Structure and Function of the Endocrine System including Pituitary gland, Adrenal glands, Thyroid, Parathyroid, Pancreas, Ovaries, and Prostate.</p> <p>General Pathology and Diagnostic Procedures of the endocrine system</p> <p>Relate the names of specific glands to the names of the hormones they secrete</p> <p>Basic Functions of the major hormones</p> <p>Pathology of specific glands. Most common disorders related to the hyposecretion or hypersecretion of specific hormones.</p>	<p>List the major components of the endocrine system.</p> <p>List and identify basic word elements related to anatomy and physiology of the endocrine system.</p> <p>Discuss the use of medical terms in relation to the endocrine system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the endocrine system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to pathology of the sensory organs.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the endocrine system.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the endocrine system.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p>

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>What are the functions of the cardiovascular system?</p> <p>What are the names of the structures of the cardiovascular system?</p> <p>What diseases are associated with the circulatory system?</p> <p>What are the clinical diagnostic and treatment procedures associated with the circulatory system?</p> <p>How do the terms naming blood components relate to their structure and/or function?</p> <p>What are the major diseases associated with blood?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p>	<p>The Circulatory System, Structures & Functions</p> <p>Basic Anatomy of the heart and blood vessels</p> <p>Blood flow: Pathway through the heart Factors that affect blood flow</p> <p>The cardiac conduction system - Transmission of impulses in the heart Parts of an ECG</p> <p>Pathways of circulation Systemic circulation Pulmonary circulation</p> <p>Physiology of circulation Heart sounds and what they mean Hypertension and risk factors</p> <p>The terms used for the composition of blood, including plasma and formed elements</p> <p>Functions of blood components</p> <p>Hemostasis; coagulation</p> <p>Blood types</p> <p>Transfusion reactions</p>	<p>List the major components of the cardiovascular system.</p> <p>List and identify basic word elements related to anatomy and physiology of the cardiovascular system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the cardiovascular system.</p> <p>Discuss the use of medical terms in relation to the cardiovascular system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to pathology of the cardiovascular system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the cardiovascular system.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the cardiovascular system.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p> <p>Define formed elements of the blood, hematocrit, hemoglobin, anemia, leukocytes, erythrocytes, thrombocytes, hemophilia, antigen, antibody, hemolysis.</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
21st Century Life/Careers: 9.1, 9.3, 9.4		

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>What are the structures of the lymphatic system?</p> <p>How does the lymphatic system function in helping the body stay healthy?</p> <p>What terminology is specific to the lymphatic system and its functions?</p> <p>How does the lymphatic system function with the circulatory system to maintain fluid balance?</p> <p>What diseases are associated with the lymphatic system?</p> <p>What diagnostic and treatment procedures are used for immune disorders?</p> <p>What is difference between vaccines and antibiotics?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p>	<p>Lymphatic System & Body Defenses</p> <p>Specific body defenses Lymphocytes Antibodies Macrophages</p> <p>Lymphatic structure & function Major organs Function and composition of lymph</p> <p>Vaccines & antibiotics</p>	<p>Describe the anatomy and physiology of the lymphatic system.</p> <p>List the major components of the lymphatic system.</p> <p>List and identify basic word elements related to anatomy and physiology of the lymphatic system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the lymphatic system.</p> <p>Discuss the use of medical terms in relation to the lymphatic system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to pathology of the lymphatic system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the lymphatic system.</p> <p>Recall the pronunciation, spelling, and definition of standard and common abbreviations related to the lymphatic system.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p> <p>Explain the basic functions of the human immune system, including specific and nonspecific immune response, vaccines,</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
21st Century Life/Careers: 9.1, 9.3, 9.4		and antibiotics.

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>What are the terms to describe the structures of the respiratory system and how they function?</p> <p>How do the respiratory system and circulatory system work together to transport vital gases throughout the body?</p> <p>What diseases are associated with the respiratory system?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p>	<p>Respiratory structure & function Organs of respiratory system</p> <p>Respiratory physiology Process of ventilation Gas exchange Gas transport Mechanisms that control ventilation</p> <p>Major diseases of the respiratory system</p> <p>Diagnostic Tests and Treatment Procedures associated with the Respiratory system</p>	<p>Name the organs of the respiratory system.</p> <p>List and identify basic word elements related to anatomy and physiology of the respiratory system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the respiratory system.</p> <p>Discuss the use of medical terms in relation to the respiratory system.</p> <p>Analyze, define, spell, and pronounce medical terms relating the respiratory system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the respiratory system.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the respiratory system.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
21st Century Life/Careers: 9.1, 9.3, 9.4		

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>What are the structures of the digestive system which function to provide the body with vital nutrients?</p> <p>What diseases are associated with the digestive system?</p> <p>What diagnostic tests are used to find disorders of the digestive system?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p> <p>21st Century Life/Careers:</p>	<p>Digestive System, Structure & Function Alimentary canal Accessory organs</p> <p>Mechanical & chemical digestion, absorption Location of each process Terms used to describe how each process works</p> <p>Accessory Organs of Digestion</p> <p>The function of glucose for energy production</p> <p>Pathology of the Digestive System</p> <p>Diagnostic and Treatment procedures of the digestive system</p>	<p>List the major components of the digestive system.</p> <p>List and identify basic word elements related to anatomy and physiology of the digestive system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the digestive system.</p> <p>Discuss the use of medical terms in relation to the digestive system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to disorders of the digestive system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the digestive system.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the digestive system.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
9.1, 9.3, 9.4		

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>What are the names of the structures of the urinary system?</p> <p>What are the terms related to the function of the urinary system?</p> <p>How does the urinary system filter blood and form urine?</p> <p>What diseases are associated with the urinary system?</p> <p>What are the diagnostic tests used to determine pathology of the urinary system?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p> <p>21st Century Life/Careers:</p>	<p>Urinary system, Structure & Function Major organs Histology The nephron unit</p> <p>Formation of Urine Filtration, tubular reabsorption, tubular secretion</p> <p>Components of urine (normal & abnormal)</p> <p>Pathology of the urinary system</p> <p>Diagnosis and Treatment of urinary disorders</p>	<p>Describe the anatomy of the urinary system Including the kidneys, ureters, the urinary bladder and the urethra.</p> <p>List and identify basic word elements related to anatomy and physiology of the urinary system.</p> <p>Analyze, define, spell, and pronounce medical terms relating to the urinary system.</p> <p>Describe the basic physiology of urine formation by the kidneys.</p> <p>Discuss the use of medical terms related to the urinary system.</p> <p>Analyze, define, spell, and pronounce medical terms related to specific conditions that involve the urinary system.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the urinary system.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the urinary system.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
9.1, 9.3, 9.4		

KEY ELEMENTS	CONTENT (What Students should know)	PERFORMANCE TARGETS
<p>What are the major structures and functions of the male and female reproductive systems?</p> <p>How do the ovarian and uterine cycles work together to make reproduction possible?</p> <p>What diseases are associated with the male and female reproductive systems?</p> <p>What are sexually transmitted diseases and how can they best be prevented?</p> <p>What other pathological conditions are associated with the reproductive systems and how are they diagnosed?</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p>	<p>Male and Female Reproductive Systems</p> <p>Male anatomy Male reproductive functions spermatogenesis</p> <p>Female anatomy Female reproductive functions Oogenesis Ovarian cycle Uterine cycle</p> <p>Pathology of the male and female reproductive systems</p> <p>Diagnosis and Treatment of male and female reproductive disorders</p>	<p>Describe the basic anatomy and physiology of the male and female human reproductive systems. List and identify basic word elements related to anatomy and physiology of the male and female reproductive systems.</p> <p>Analyze, define, spell, and pronounce medical terms related to the male and female reproductive systems.</p> <p>Discuss the use of medical terms in relation to the male and female reproductive system.</p> <p>Analyze, define, spell, and pronounce medical terms related to pathology of the male and female reproductive systems.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with the male and female reproductive system.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to the male and female reproductive systems.</p> <p>Utilize standard and common abbreviations used in medical clerical and clinical areas.</p>

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
21st Century Life/Careers: 9.1, 9.3, 9.4		

KEY ELEMENTS	CONTENT <i>(What Students should know)</i>	PERFORMANCE TARGETS
<p>Describe the process of human development from fertilization to birth and major changes that occur in each trimester of pregnancy.</p> <p>Analyze how hereditary and family history can impact personal health.</p> <p>NJCCCS: 3.1, 3.2, 3.3, 3.4, 5.1C, 5.3A</p> <p>Technology: 8.1</p> <p>21st Century Life/Careers: 9.1, 9.3, 9.4</p>	<p>Pregnancy & Fetal development</p>	<p>Describe the process of human development from fertilization to birth and major changes that occur in each trimester of pregnancy.</p> <p>Analyze how hereditary and family history can impact personal health.</p> <p>List the major components of obstetrics and neonatology.</p> <p>List and identify basic word elements related to anatomy and physiology of obstetrics and neonatology.</p> <p>Analyze, define, spell, and pronounce medical terms relating to obstetrics and neonatology.</p> <p>Discuss the use of medical terms in relation to obstetrics and neonatology.</p> <p>Analyze, define, spell, and pronounce medical terms relating to obstetrics and neonatology.</p> <p>Analyze, define, spell, and pronounce words related to clinical procedures associated with obstetrics and neonatology.</p> <p>Review the pronunciation, spelling, and definition of standard and common abbreviations related to obstetrics and neonatology.</p> <p>Utilize standard and common abbreviations needed in medical clerical and clinical areas.</p>

