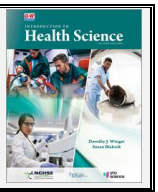
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SC Healthcare Science 2
Foundations Of Healthcare Professions 5551
(Grade 9-12)



COURSE DESCRIPTION: Builds on curriculum introduced in Foundations of Healthcare Professions. Develop enhanced written and oral communication skills and medical math principles. This course applies basic medical terminology roots, prefixes, and suffixes to communicate body systems, diseases, and disorders. Identifies how key systems affect services performed and quality of care. Defines legal responsibilities, limitations, and implications on healthcare worker actions. Investigates accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment. Instructs technical skills for measuring and recording vital signs.

Standard	Correlating Text Pages
1.0 COMMUNICATION	
(Based on National Health Science Standards 2.1.3, 2.3.1, 2.3.2, 2.3.3) Demonstrate methods of delivering and obtaining information, while communicating effectively.	
1.1 Concepts of Effective Communication	
1.1.1 Distinguish between subjective and objective information.	**Instruction:** 403 Lesson 11.3 Observation Skills 403 11.3-1 Observing Body Language 404 11.3-2 Communicating Observations 404 objective observations 404 subjective observations **Application:** 408 Lesson 11.3 Review 422 Chapter 11 Maximize Your Professional Vocabulary 423 Chapter 11 Reflect on Your Reading 423 Chapter 11 Review and Recall 424 Chapter 11 Build Core Skills 425 Chapter 11 Activate Your Learning 425 Chapter 11 Think and Act Like a Healthcare Worker 425 HOSA Event Prep: Prepared Speaking
1.2 Written Communication Skills	
1.2.1 Use proper elements of written and electronic communication (spelling, grammar, and formatting).	**Instruction:** 383 Lesson 11.2 Reading and Writing Skills 384 11.2-1 Technical Communication 384 Healthcare Professions: Reading and Writing 384 Reading Technical Documents 388 Writing Technical Documents 390 Drafting 391 11.2-2 Writing Letters, Memos, and Emails 391 Letters 391 Memos 392 Figure 11.18 Business Letter

Standard	Correlating Text Pages
	393 Figure 11.19 Memos 393 Figure 11.20 Effective Correspondence 394 Emails 394 Figure 11.21 Health Informatics Workers Use Electronic Communication 395 Figure 11.22 Email Guidelines 396 Figure 11.23 Email Memos to Coworkers 397 11.2-3 Scientific Communication 397 Healthcare Professions: Scientific Communication 397 Proposals and Recommendation Reports 398 Healthcare Professions: Scientific Communication 399 Scientific Writing Guidelines 400 Figure 11.25 First Draft Report 401 Figure 11.26 Scientific Writing Guidelines **Application:** 401 Lesson 11.2 Review 422 Chapter 11 Maximize Your Professional Vocabulary 423 Chapter 11 Reflect on Your Reading 423 Chapter 11 Review and Recall 424 Chapter 11 Build Core Skills 425 Chapter 11 Activate Your Learning 425 Chapter 11 Think and Act Like a Healthcare Worker 425 HOSA Event Prep: Prepared Speaking
1.2.2 Prepare examples of technical and informative writing.	**Instruction:** 383 Lesson 11.2 Reading and Writing Skills 384 11.2-1 Technical Communication 384 Healthcare Professions: Reading and Writing 388 Writing Technical Documents 390 Drafting 391 11.2-2 Writing Letters, Memos, and Emails 391 Letters 391 Memos 392 Figure 11.18 Business Letter 393 Figure 11.19 Memos 393 Figure 11.20 Effective Correspondence 394 Emails 394 Figure 11.21 Health Informatics Workers Use Electronic Communication 395 Figure 11.22 Email Guidelines 396 Figure 11.23 Email Memos to Coworkers 397 11.2-3 Scientific Communication 397 Healthcare Professions: Scientific Communication 397 Proposals and Recommendation Reports

Standard	Correlating Text Pages
	398 Healthcare Professions: Scientific Communication 399 Scientific Writing Guidelines 400 Figure 11.25 First Draft Report 401 Figure 11.26 Scientific Writing Guidelines **Application:** 401 Lesson 11.2 Review 422 Chapter 11 Maximize Your Professional Vocabulary 423 Chapter 11 Reflect on Your Reading 423 Chapter 11 Review and Recall 424 Chapter 11 Build Core Skills 425 Chapter 11 Activate Your Learning 425 Chapter 11 Think and Act Like a Healthcare Worker 425 HOSA Event Prep: Prepared Speaking
1.2.3 Demonstrate appropriate use of digital communication in a work environment, such as email, text, and social media.	**Instruction:** 383 Lesson 11.2 Reading and Writing Skills 384 Healthcare Professions: Reading and Writing 391 11.2-2 Writing Letters, Memos, and Emails 391 Letters 391 Memos 392 Figure 11.18 Business Letter 393 Figure 11.19 Memos 393 Figure 11.20 Effective Correspondence 394 Emails 394 Figure 11.21 Health Informatics Workers Use Electronic Communication 395 Figure 11.22 Email Guidelines 396 Figure 11.23 Email Memos to Coworkers 449 12.3-2 Social Media 449 Figure 12.16 Social Media Guidelines for Healthcare Professionals 450 Concerns **Application:** 401 Lesson 11.2 Review 422 Chapter 11 Maximize Your Professional Vocabulary 423 Chapter 11 Reflect on Your Reading 423 Chapter 11 Review and Recall 424 Chapter 11 Build Core Skills 425 Chapter 11 Activate Your Learning 425 Chapter 11 Think and Act Like a Healthcare Worker 425 HOSA Event Prep: Prepared Speaking 465 Lesson 12.3 Review

Standard	Correlating Text Pages
1.3 Medical Terminology	
1.3.1 Use common roots, prefixes, and suffixes to communicate information.	**Instruction:** 642 Lesson 17.1 Medical Terminology 642 17.1-1 Medical Terminology 643 17.1-2 Understanding Word Parts 643 Figure 17.1 Word Trains 643 root word 644 Figure 17.2 Word Parts 644 prefix 644 suffix 645 17.1-3 Forming Plural Medical Terms 645 Figure 17.3 Plural Forms of Common Latin and Greek Suffixes **Application:** 647 Lesson 17.1 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
1.3.2 Interpret common medical abbreviations to communicate information.	**Instruction:** 642 Lesson 17.1 Medical Terminology 645 17.1-4 Abbreviations 646 Figure 17.4 Error-Prone Abbreviations and Symbols **Application:** 647 Lesson 17.1 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
2.0 HUMAN ANATOMY AND PHYSIOLOGY	
(Based on National Health Science Standards 1.1.1 b, c, d) Understand human anatomy, physiology, common diseases and disorders.	
2.1 Describe the organization of the human body and directional terms.	
2.1.1 Demonstrate anatomical position	**Instruction:** 656 Lesson 17.3 Anatomical Terminology

Standard	Correlating Text Pages
	657 17.3-1 Anatomical Position **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
2.1.2 Identify body planes	
• Coronal / Frontal	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 663 17.3-6 Body Planes 663 frontal plane 664 The Three Planes **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Midsagittal	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 663 17.3-6 Body Planes 663 midsagittal plane 664 The Three Planes **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Sagittal	**Instruction:** 656 Lesson 17.3 Anatomical Terminology

Standard	Correlating Text Pages
	663 17.3-6 Body Planes 663 sagittal plane 664 The Three Planes **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Transverse / Horizontal	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 663 17.3-6 Body Planes 663 transverse plane 664 The Three Planes **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
2.1.3 Use directional terms	
• Anterior / Posterior	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 657 17.3-2 Body Directions 657 Anterior 657 Posterior 658 Figure 17.10 Directional Terms 658 Anterior, Ventral, Posterior, and Dorsal 659 Figure 17.12 Dorsal and Ventral **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker

Standard	Correlating Text Pages
	669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Cephalic/Caudal	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 657 17.3-2 Body Directions 658 Figure 17.10 Directional Terms **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Medial / Lateral	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 657 17.3-2 Body Directions 657 Medial 657 Lateral 658 Figure 17.10 Directional Terms **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Proximal / Distal	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 657 17.3-2 Body Directions 658 Figure 17.10 Directional Terms 658 Proximal Versus Distal 658 Figure 17.11 Proximal and Distal **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning

Standard	Correlating Text Pages
	669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Superficial / Deep	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 657 17.3-2 Body Directions 657 Superficial 657 deep 658 Figure 17.10 Directional Terms **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Superior / Inferior	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 657 17.3-2 Body Directions 657 Superior 657 Inferior 658 Figure 17.10 Directional Terms **Application:** 665 Lesson 17.3 Review 667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
• Ventral / Dorsal	**Instruction:** 656 Lesson 17.3 Anatomical Terminology 657 17.3-2 Body Directions 658 Figure 17.10 Directional Terms 658 Anterior, Ventral, Posterior, and Dorsal 659 Figure 17.12 Dorsal and Ventral **Application:** 665 Lesson 17.3 Review

Standard	Correlating Text Pages
	667 Chapter 17 Reflect on Your Reading 667 Chapter 17 Review and Recall 668 Chapter 17 Build Core Skills 668 Chapter 17 Activate Your Learning 669 Chapter 17 Think and Act Like a Healthcare Worker 669 Chapter 17 Go to the Source 669 HOSA Event Prep: Medical Terminology
2.2 Identify the major human body systems, and their basic function.	**Instruction:** 672 Lesson 18.1 The Integumentary System 673 18.1-1 The Role of Collagen 673 Figure 18.1 Support and Movement Are Provided by the Integumentary, Muscular, and Skeletal Systems 674 18.1-2 Understanding the Integumentary System 676 Figure 18.3 The Epidermis 676 18.1-3 The Epidermis 679 18.1-4 The Dermis 681 Figure 18.8 Hair and Nails Have a Similar Structural Makeup 682 18.1-5 The Hypodermis 685 Lesson 18.2 The Skeletal System 686 18.2-1 Understanding the Skeletal System 687 18.2-2 Parts of a Bone 687 Figure 18.13 Bones Contain Important Structures and Materials 688 18.2-3 Bone Development 689 Figure 18.14 Risk for Osteoporosis 690 Figure 18.15 Skeleton Diagram 691 Figure 18.16 Cranium and Facial Bones of the Skull 691 18.2-4 Types of Bones 691 Figure 18.17 Flat Bone 692 Figure 18.18 Long Bone 692 Figure 18.19 Short Bones 692 Figure 18.20 Irregular Bone 692 18.2-5 Bone Markings 693 Figure 18.21 Bone Markings 693 Figure 18.22 Condyles and Tuberosities 694 18.2-6 Divisions of the Skeleton 694 Axial Skeleton 694 Figure 18.23 The 33 Bones of the Spine 695 Figure 18.24 Spinal Conditions 695 Appendicular Skeleton 696 18.2-7 Types of Joints 696 Diarthroses 696 Figure 18.25 Diarthroses 697 Amphiarthroses 697 Synarthroses

Standard	Correlating Text Pages
	699 Lesson 18.3 The Muscular System 700 18.3-1 Understanding the Muscular System 701 18.3-2 Types of Muscle Tissue 701 Characteristics 702 Figure 18.27 Skeletal Muscles of the Head and Torso 703 Figure 18.28 Skeletal Muscles of the Arms and Legs 704 Figure 18.29 Three Types of Muscle Tissue 704 Control 706 18.3-3 Muscle Shape and Attachment 706 Figure 18.31 A Fascicle Is a Bundle of Muscle Fibers 707 Figure 18.32 Different Muscle Shapes and Points of Attachment 708 18.3-4 Muscle Movements 708 Figure 18.33 Flexion and Extension 709 Figure 18.34 Muscle Movement Terminology 710 18.3-5 The Logic of Muscle Names 718 Lesson 19.1 The Cardiovascular System 721 19.1-1 The Role of Blood in the Cardiovascular System 721 Figure 19.3 Transportation and Exchange of Nutrients and Gases 722 Blood Composition 723 Figure 19.4 Blood Consists of Plasma and Formed Elements 724 Blood Types 724 Figure 19.5 Blood Types 725 19.1-2 Blood Vessels 725 Figure 19.6 Networks of Blood Vessels 725 Arteries 726 Capillaries 726 Veins 726 Major Blood Vessels 727 Figure 19.7 Major Arteries and Veins 728 19.1-3 The Heart 728 Blood Flow in the Heart 728 Figure 19.8 The Heart Pumps Blood through Two Loops 729 Figure 19.9 Diagram of the Heart 730 Coronary Blood Vessels 730 Figure 19.10 Coronary Arteries Are Essential 731 19.1-4 The Cardiac Cycle and Vital Signs 731 Cardiac Cycle 731 Figure 19.11 Electrical Centers of Heart Activity 732 Pulse 732 Blood Pressure 734 Lesson 19.2 The Lymphatic System

Standard	Correlating Text Pages
	735 19.2-1 Lymphatic Support for the Immune Response 736 Figure 19.15 White Blood Cell 736 Natural Barriers 737 Inflammation 737 Adaptive Immune Response 738 19.2-2 Structures and Functions of the Lymphatic System 738 Fluid Collection 740 Fat Absorption 740 Figure 19.18 The Organs of the Lymphatic System 741 Lymph Filtration 741 Removal and Destruction 742 Lesson 19.3 The Respiratory System 744 19.3-1 Structures, Functions, and Diseases of the Respiratory System 744 Figure 19.21 Respiratory Organs 744 Mouth and Nose 745 Pharynx 745 Figure 19.22 The Pharynx Has Three Separate Sections 746 Epiglottis 746 Larynx 7746 Trachea 746 Bronchi and Bronchioles 747 Figure 19.23 Asthma Attack 747 Alveoli 748 19.3-2 The Two-Stage Process of Respiration 748 19.3-3 Variation in Respiratory Rate and Volume 749 Figure 19.25 Respiratory Cycle 749 Abnormal Breathing 749 Lung Volume 750 Figure 19.26 Lung Capacity 751 Factors Affecting Lung Volume 758 Lesson 20.1 The Nervous System 760 20.1-1 Regulation and Communication in the Body 761 Figure 20.2 Activity in the Brain 761 20.1-2 The Neuron 761 Figure 20.3 Different Types of Neurons 762 20.1-3 The Central Nervous System 762 The Brain 763 Figure 20.4 Sections of the Nervous System 763 Figure 20.5 Brain Development from Embryo to Infant 764 Figure 20.6 Stroke Symptoms 765 Figure 20.7 Sections of the Brain 766 Figure 20.8 Motor Skills Control Areas 767 Figure 20.9 Midsagittal Section of the Brain

Standard	Correlating Text Pages
	770 Spinal Cord 770 20.1-4 Structures Protecting the Central Nervous System 770 Meninges 771 Figure 20.12 Three Layers of Meninges 771 Blood-Brain Barrier 771 Bones 772 Figure 20.13 Sina Bifida 772 Cerebrospinal Fluid (CSF) 773 20.1-5 Glymphatic System 773 Figure 20.14 Glymphatic System 774 20.1-6 The Peripheral Nervous System 774 Cranial and Spinal Nerves 775 Figure 20.16 The 12 Cranial Nerves 776 Figure 20.17 Name, Location, and Function of the Cranial Nerves 777 Figure 20.18 The 31 Spinal Nerve Roots 777 Nerve Pathways and Message Relays 778 Figure 20.19 Sensory Receptors 778 Figure 20.20 Spinal Nerve Plexuses 779 Figure 20.21 Major Nerves Travel Same Pathways as Major Blood Vessels 781 Lesson 20.2 The Special Senses 782 20.2-1 Touch 782 Figure 20.22 Hairy and Non-Hairy Skin Have Some Different Types of Skin Receptors 783 20.2-2 Taste 783 Figure 20.24 Taste Sensory Organs 784 20.2-3 Smell 784 Figure 20.25 Chemoreceptors for Smell and Taste 785 20.2-4 Hearing 785 The Ear 786 Figure 20.26 Structures of the Outer and Inner Ear 786 Hearing Screening 787 Figure 20.27 Illustrated Audiogram 788 Hearing Loss 789 20.2-5 Vision 791 Figure 20.31 Visible Light within the Spectrum 791 Figure 20.32 Structures Around the Eye 791 Parts of the Eye 792 Figure 20.33 Structures of the Eye 793 Figure 20.34 Common Refractive Conditions of the Eye 793 Photoreceptors 795 Lesson 20.3 The Endocrine System 795 20.3-1 Understanding Hormones and the Endocrine System 796 Figure 20.35 Hormones Are Sent to Organs

Standard	Correlating Text Pages
	797 Figure 20.36 Hormones Travel through the Circulatory System 798 Figure 20.37 Hormones Help the Body Maintain Homeostasis 798 20.3-2 Connection to the Nervous System 799 20.3-3 Functions of Endocrine Glands 799 Figure 20.38 Major Organs and Glands of the Endocrine System 799 Thyroid and Parathyroid Glands 799 Adrenal Glands 800 Ovaries and Testes 800 Pancreas 801 20.3-4 Changes in Hormone Production 808 Lesson 21.1 The Digestive System 810 21.1-1 Understanding the Digestive System 811 21.1-2 The Process of Digestion 811 Figure 21.2 The Process of Digestion 812 Mouth and Teeth 812 Figure 21.3 Different Types of Teeth 813 Figure 21.4 Each Tooth Consists of Several Layers 813 Pharynx, Esophagus, and Stomach 814 Figure 21.5 Digestive System Diagram 814 Pancreas 815 Liver and Gallbladder 815 Small Intestines 816 Figure 21.7 Villi in the Small Intestine 816 Large Intestines, Rectum, and Anus 817 Figure 21.8 Colostomy 818 Lesson 21.2 The Excretory (Urinary) System 819 21.2-1 The Excretory System and Waste Removal 819 Figure 21.9 The Organs of the Excretory System 820 Figure 21.11 Urine Color Tells About a Person's Health 820 21.1-1 The Urinary System and Blood Filtration 821 Kidneys and Filtration 821 Figure 21.12 The Structure of the Kidney 822 Figure 21.13 Nephrons Perform Urine Formation 823 Ureters, Bladder, and Urethra 823 21.2-3 The Kidneys' Role in Maintaining Homeostasis 825 Lesson21.3 The Reproductive System 826 21.3-1 The Male Reproductive Organs 826 Figure 21.14 The Male Reproductive System 827 Figure 21.15 Sperm Attempting to Penetrate an Egg 827 21.3-2 The Female Reproductive Organs

Standard	Correlating Text Pages
	828 Figure 21.16 The Female Reproductive System 829 21.3-3 Sexually Transmitted Infections (STIs) 830 21.3-4 Genetics, Heredity, and Biomedicine 830 Figure 21.17 Daughter Cells Have 46 Chromosomes Identical to the Mother Cell 831 Genetic Testing 831 Gene Therapy 832 Stem Cells 832 Figure 21.18 Stem Cell Research 832 Cloning 833 21.3-5 Reproductive Hormones 833 Puberty and the Menstrual Cycle 834 Figure 21.20 Hormonal and Structural Changes during the Female Hormone Cycle 835 Pregnancy and Childbirth 835 Aging and Reproductive Hormones 836 21.3-6 Reproduction, Prenatal Development, and Childbirth 836 Fertilization and Implantation 836 Figure 21.22 Embryonic Development 837 Prenatal Development 837 Figure 21.23 Sonogram of a Fetus 838 Figure 21.24 Timing for Development of Different Parts of the Body 839 Childbirth 840 Figure 21.25 The Stages of Labor 847 Appendix B: Bones of the Human Body **Application:** 684 Lesson 18.1 Review 698 Lesson 18.2 Review 711 Lesson 18.3 Review 713 Chapter 18 Reflect on Your Reading 713 Chapter 18 Review and Recall 714 Chapter 18 Build Core Skills 715 Chapter 18 Activate Your Learning 715 Chapter 18 Think and Act Like a Healthcare Worker 715 Chapter 18 Go to the Source 715 HOSA Event Prep: Pathophysiology 733 Lesson 19.1 Review 741 Lesson 19.2 Review 751 Lesson 19.3 Review 753 Chapter 19 Reflect on Your Reading 753 Chapter 19 Review and Recall 754 Chapter 19 Build Core Skills 754 Chapter 19 Activate Your Learning 755 Chapter 19 Think and Act Like a Healthcare Worker 755 Chapter 19 Go to the Source

Standard	Correlating Text Pages
	780 Lesson 20.1 Review 794 Lesson 20.2 Review 801 Lesson 20.3 Review 803 Chapter 20 Reflect on Your Reading 803 Chapter 20 Review and Recall 804 Chapter 20 Build Core Skills 805 Chapter 20 Activate Your Learning 805 Chapter 20 Think and Act Like a Healthcare Worker 805 Chapter 20 Go to the Source 817 Lesson 21.1 Review 824 Lesson 21.2 Review 841 Lesson 21.3 Review 843 Chapter 21 Reflect on Your Reading 843 Chapter 21 Review and Recall 844 Chapter 21 Build Core Skills 845 Chapter 21 Activate Your Learning 845 Chapter 21 Think and Act Like a Healthcare Worker 845 Chapter 21 Go to the Source
2.3 Describe biomedical therapies as they relate to the prevention, pathology, and treatment of disease.	
• Stem cell research	**Instruction:** 830 21.3-4 Genetics, Heredity, and Biomedicine 832 Stem Cells 832 Figure 21.18 Stem Cell Research **Application:** 841 Lesson 21.3 Review 843 Chapter 21 Reflect on Your Reading 843 Chapter 21 Review and Recall 844 Chapter 21 Build Core Skills 845 Chapter 21 Activate Your Learning 845 Chapter 21 Think and Act Like a Healthcare Worker 845 Chapter 21 Go to the Source
• Immunotherapy	**Instruction:** 737 Inflammation
• Immunizations	**Instruction:** 53 2.2-1 Infectious Agents 53 Types of Pathogens 281 9.2-1 Public Health and Preventive Care Strategies 591 15.2-6 Following Healthcare Mandates

Standard	Correlating Text Pages
3.0 SYSTEMS	
(Based on National Health Science Standards 3.1.1, 3.1.2, 3.1.3, 3.1.4) Identify how key systems affect services performed and quality of care.	
3.1 Healthcare Delivery Systems	
3.1.1 Differentiate healthcare delivery systems and healthcare related agencies.	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 538 Figure 14.2 Healthcare Facilities 539 Government and Nonprofit Agencies 540 Figure 14.3 American Red Cross 541 Healthcare Provider Settings 540 Figure 14.4 Ambulances Transport Patients to the Emergency Room 541 Figure 14.5 Long-Term Care Facilities 542 Research, Testing, and Technology Facilities 542 Figure 14.6 Healthcare Workers in Labs Test Blood, Body Fluids, and Tissues to Diagnose Illness **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
3.1.11 Types of practice settings	
• Acute care	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 540 Healthcare Provider Settings 540 acute care **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health

Standard	Correlating Text Pages
• Ambulatory care	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 540 Healthcare Provider Settings 540 ambulatory care 540 Figure 14.4 Ambulances Transport Patients to the Emergency Room **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Behavioral and mental health services	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 541 Healthcare Provider Settings **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Home care	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 540 Healthcare Provider Settings 541 home healthcare **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health

Standard	Correlating Text Pages
• Long-term care	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 540 Healthcare Provider Settings 541 Long-term care facilities **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Medical and dental practices	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 541 Healthcare Provider Settings **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Specialty medical and dental practices	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 541 Healthcare Provider Settings **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health

Standard	Correlating Text Pages
• Cosmetic surgery	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 541 Healthcare Provider Settings **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Orthodontics	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 541 Healthcare Provider Settings **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Pulmonology	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 541 Healthcare Provider Settings **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health

Standard	Correlating Text Pages
• Surgical	**Instruction:** 538 14.1-2 Healthcare Delivery Systems and Related Agencies 541 Healthcare Provider Settings **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
3.1.2 Government agencies	
• Centers for Disease Control and Prevention (CDC)	**Instruction:** 539 Government and Nonprofit Agencies 539 Centers for Disease Control and Prevention (CDC) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Centers for Medicare & Medicaid Services (CMS)	**Instruction:** 539 Government and Nonprofit Agencies 539 Centers for Medicare & Medicaid Services (CMS) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health

Standard	Correlating Text Pages
• National Institutes of Health (NIH)	**Instruction:** 539 Government and Nonprofit Agencies 539 National Institutes of Health (NIH) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Occupational Safety and Health Administration (OSHA)	**Instruction:** 539 Government and Nonprofit Agencies 540 US Department of Labor's Occupational Safety and Health Administration (OSHA) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• U.S. Department of Veterans Affairs (VA)	**Instruction:** 539 Government and Nonprofit Agencies 540 Department of Veterans Affairs (VA) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• U.S. Food and Drug Administration (FDA)	**Instruction:** 539 Government and Nonprofit Agencies 539 US Food and Drug Administration (FDA)

Standard	Correlating Text Pages
	Application: 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• U.S. Public Health Service (USPHS)	**Instruction:** 539 Government and Nonprofit Agencies 540 US Public Health Service (USPHS) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
3.1.3 Related organizations	
• American Cancer Society (ACS)	**Instruction:** 539 Government and Nonprofit Agencies 540 American Cancer Society (ACS) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• American Heart Association (AHA)	**Instruction:** 539 Government and Nonprofit Agencies 540 American Heart Association (AHA) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall

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	573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• American Red Cross (ARC)	**Instruction:** 539 Government and Nonprofit Agencies 540 US Public Health Service (USPHS) 540 American Red Cross (ARC) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• March of Dimes	**Instruction:** 539 Government and Nonprofit Agencies 540 March of Dimes **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• World Health Organization (WHO)	**Instruction:** 539 Government and Nonprofit Agencies 539 World Health Organization (WHO) **Application:** 546 Lesson 14.1 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker

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	575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
3.2 Examine the healthcare consumer's rights and responsibilities within the healthcare system.	
• Compliance	**Instruction:** 124 4.1-2 Job Families in Health Informatics Services 126 Figure 4.2 Job Families in Health Informatics Services 126 Compliance and Risk Assessment 440 12.2-2 Medical Documentation 441 Compliance **Application:** 131 Lesson 4.1 Review 140 Chapter 4 Reflect on Your Reading 141 Chapter 4 Review and Recall 142 Chapter 4 Build Core Skills 142 Chapter 4 Activate Your Learning 142 Chapter 4 Think and Act Like a Healthcare Worker 143 Chapter 4 Go to the Source 143 HOSA Event Prep: Health Informatics 446 Lesson 12.2 Review
• Patient's Bill of Rights	**Instruction:** 556 14.3-2 Influence of Changes in Healthcare System Input 557 Patient Rights and Responsibilities 619 Lesson 16.3 Laws Protecting Patient Rights **Application:** 571 Lesson 14.3 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source
• Self-advocacy	**Instruction:** 556 14.3-2 Influence of Changes in Healthcare System Input 557 Patient Rights and Responsibilities **Application:** 575 Chapter 14 Activate Your Learning

Standard	Correlating Text Pages
3.3 Analyze the impact of emerging issues on healthcare delivery systems.	
• Behavior/Mental health	**Instruction:** 286 Lesson 9.3 Mental and Behavioral Health 286 9.3-1 Mental and Behavioral Development 287 Figure 9.19 Maslow's Five Levels of Need 287 Influences on Behavior 287 Figure 9.20 Erikson's Stages of Psychosocial Development 288 Identifying Concerns 289 Figure 9.21 The BATHE Technique 289 9.3-2 Issues Affecting Mental and Behavioral Health 289 Mental Health Conditions 290 Figure 9.22 Symptoms of Depression 290 9.3-3 Maladaptive and Risky Behaviors 291 Figure 9.23 Example Risk Assessment 291 Excessive Alcohol Use 291 Smoking and Vaping 292 Opioid Crisis 293 Figure 9.25 HHS Strategy for Combatting the Opioid Crisis 293 9.3-4 Suicide 293 9.3-5 Seeking Support 293 Figure 9.26 Talk Therapy 294 9.3-6 Managing Grief 294 Figure 9.27 The Stages of Grief **Application:** 295 Lesson 9.3 Review 307 Chapter 9 Reflect on Your Reading 307 Chapter 9 Review and Recall 308 Chapter 9 Build Core Skills 309 Chapter 9 Activate Your Learning 309 Chapter 9 Think and Act Like a Healthcare Worker 309 Chapter 9 Go to the Source 309 HOSA Event Prep: Healthy Lifestyle
• Bioethics	**Instruction:** 593 Lesson 15.3 Bioethics 593 Introduction 593 Figure 15.13 In Vitro Fertilization 594 bioethics 594 15.3-1 Biobanking 594 Figure 15.14 Ethical Questions About Biobanking 595 15.3-2 Genetic Testing 595 15.3-3 Genetic Discrimination 596 15.3-4 Genetic Engineering 596 Figure 15.16 Genetic Engineering 597 15.3-5 Stem Cell Research

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	597 Figure 15.17 Types of Stem Cells 598 15.3-6 Research Reliability and Validity **Application:** 599 Lesson 15.3 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Epidemiology	**Instruction:** 245 Additional Career Opportunities 245 Epidemiologists
• Socioeconomics	**Instruction:** 284 9.2-2 Supporting Public Health 284 Socioeconomics 284 Figure 9.18 Examples of Social Determinants of Health 535 HOSA Event Prep: Public Health 559 Uninsured Populations **Application:** 285 Lesson 9.2 Review 307 Chapter 9 Reflect on Your Reading 307 Chapter 9 Review and Recall 308 Chapter 9 Build Core Skills 309 Chapter 9 Activate Your Learning 309 Chapter 9 Think and Act Like a Healthcare Worker 309 Chapter 9 Go to the Source
• Technology	**Instruction:** 127 4.1-3 Changing Technology in Health Informatics Services 127 Figure 4.3 Transcriptionists 447 Lesson 12.3 Technological Developments in Healthcare 448 12.3-1 Computerized Therapeutic Equipment 448 Figure 12.15 Technology Such as Surgery Simulators 449 12.3-2 Social Media 449 Advantages 449 Figure 12.16 Social Media Guidelines for Healthcare Professionals 450 Concerns

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	450 12.3-3 Telehealth and Telemedicine 450 Therapeutic Telemedicine 450 Figure 12.17 Mobile Health Programs 451 Diagnostic Telemedicine 452 Figure 12.19 Media Cart with Exam Camera 452 12.3-4 Diagnostic Applications 453 Figure 12.20 Automated Analyzing Equipment 453 12.3-5 Support Services Applications 453 Healthcare Professions: Support Services Technology 454 Clinical Simulators 454 Figure 12.21 Programmable Mannequins Simulate Care Situations 454 Barcode Technology 454 QR Technology 455 RFID Technology 455 NFC Technology 455 Figure 12.22 Sensor Uses NFC Technology to Transfer Blood-Glucose Readings to a Phone 456 UV-C Technology 456 Food Service Applications 456 Figure 12.23 Diet Analysis Programs 457 12.3-6 Biotechnology Research and Development Applications 457 Reliable Sources for Health Information 457 Figure 12.24 Health Misinformation on the Internet 459 Figure 12.26 Reliable Sources of Online Information 459 Scientific Literature 461 Researching a Science Topic 462 Data Management 463 Figure 12.29 DNA Sequencers 463 Healthcare Professions: Data Management 464 12.3-7 Bioinformatics 464 Figure 12.30 Bioinformaticians 564 Increasing Technology 570 Advances in Biotechnology **Application:** 131 Lesson 4.1 Review 465 Lesson 12.3 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and Act Like a Healthcare Worker 469 Chapter 12 Go to the Source

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	469 HOSA Event Prep: Medical Innovation 571 Lesson 14.3 Review
3.4 Analyze healthcare economics and related terms.	
3.4.1 The history and role of health insurance and employer/employee benefits.	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 547 Introduction 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics 550 14.2-2 Origins of Health Insurance 551 14.2-3 Development of Managed Care 552 Health Maintenance Organizations (HMOs) 552 Preferred Provider Organizations (PPOs) 552 Point-of-Service (POS) Plans 552 Exclusive Provider Organizations (EPOs) 553 High-Deductible Health Plans (HDHPs) 553 Independent Practice Associations (IPAs) **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
3.4.2 **Fundamental terms related to health insurance**	
• Claim	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics 549 claim **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker

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	575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Coinsurance	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics 549 coinsurance **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Co-payment	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics 550 copayment **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Explanation of Benefits (EOB)	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics

Standard	Correlating Text Pages
	549 explanation of benefits (EOB) **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Fraud	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 610 Introduction 610 Fraud
• Health Insurance Portability and Accountability Act (HIPAA)	**Instruction:** 621 16.3-3 Healthcare Privacy 621 Health Insurance Portability and Accountability Act (HIPAA) **Application:** 622 Lesson 16.3 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Medical Coding	**Instruction:** 127 4.1-3 Changing Technology in Health Informatics Services 127 Medical coders 128 4.1-4 Education, Training, and Career Outlook 128 Figure 4.4 Certifications for Health Information Technicians **Application:** 131 Lesson 4.1 Review 140 Chapter 4 Reflect on Your Reading 141 Chapter 4 Review and Recall 142 Chapter 4 Activate Your Learning

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	142 Chapter 4 Think and Act Like a Healthcare Worker 143 Chapter 4 Go to the Source 143 HOSA Event Prep: Health Informatics
• Premium	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics 549 premium **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
3.4.3 Types of insurance plans	
• Private health insurance plans	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 547 Introduction 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics 550 14.2-2 Origins of Health Insurance 550 Figure 14.13 Medicare 551 14.2-3 Development of Managed Care 551 Figure 14.14 Types of Healthcare Insurance Plans 552 Health Maintenance Organizations (HMOs) 552 Preferred Provider Organizations (PPOs) 552 Point-of-Service (POS) Plans 552 Exclusive Provider Organizations (EPOs) 553 High-Deductible Health Plans (HDHPs) 553 Independent-Practice Associations (IPAs) **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall

Standard	Correlating Text Pages
	573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Managed Care	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 551 14.2-3 Development of Managed Care 551 Figure 14.14 Types of Healthcare Insurance Plans 552 Health Maintenance Organizations (HMOs) 552 Preferred Provider Organizations (PPOs) 552 Point-of-Service (POS) Plans 552 Exclusive Provider Organizations (EPOs) 553 High-Deductible Health Plans (HDHPs) 553 Independent-Practice Associations (IPAs) **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
o Health Maintenance Organization (HMO)	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 551 14.2-3 Development of Managed Care 551 Figure 14.14 Types of Healthcare Insurance Plans 552 Health Maintenance Organizations (HMOs) **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health

Standard	Correlating Text Pages
o Independent Practice Association (IPA)	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 551 14.2-3 Development of Managed Care 551 Figure 14.14 Types of Healthcare Insurance Plans 553 Independent-Practice Associations (IPAs) **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
o Preferred Provider Organization (PPO)	**Instruction:** 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 551 14.2-3 Development of Managed Care 551 Figure 14.14 Types of Healthcare Insurance Plans 552 Preferred Provider Organizations (PPOs) **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
• Government programs	**Instruction:** 24 1.3-2 Affordable Healthcare 24 Figure 1.20 Healthcare Spending per Person 25 1.3-3 Accessible Healthcare 25 Figure 1.21 Average Family Spending on Healthcare 26 1.3-4 Addressing the Issues 26 Patient Protection and Affordable Care Act (ACA) 26 Figure 1.22 Number of Uninsured Individuals 557 Patient Rights and Responsibilities 558 Health Disparities 559 Uninsured Populations

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	560 Figure 14.20 Affordable Care Act 558 Patient Protection and Affordable Care Act (ACA) **Application:** 27 Lesson 1.3 Review 28 Chapter 1 Reflect on Your Reading 28 Chapter 1 Review and Recall 30 Chapter 1 Build Core Skills 31 Chapter 1 Activate Your Learning 31 Chapter 1 Think and Act Like a Healthcare Worker 31 Chapter 1 Go to the Source 571 Lesson 14.3 Review
○ Affordable Care Act (ACA)	**Instruction:** 24 1.3-2 Affordable Healthcare 24 Figure 1.20 Healthcare Spending per Person 25 1.3-3 Accessible Healthcare 25 Figure 1.21 Average Family Spending on Healthcare 26 1.3-4 Addressing the Issues 26 Patient Protection and Affordable Care Act (ACA) 26 Figure 1.22 Number of Uninsured Individuals 557 Patient Rights and Responsibilities 558 Health Disparities 559 Uninsured Populations 560 Figure 14.20 Affordable Care Act 558 Patient Protection and Affordable Care Act (ACA) **Application:** 27 Lesson 1.3 Review 28 Chapter 1 Reflect on Your Reading 28 Chapter 1 Review and Recall 30 Chapter 1 Build Core Skills 31 Chapter 1 Activate Your Learning 31 Chapter 1 Think and Act Like a Healthcare Worker 31 Chapter 1 Go to the Source 571 Lesson 14.3 Review
○ Children's Health Insurance Program (CHIP)	**Instruction:** 550 14.2-2 Origins of Health Insurance 550 Children's Health Insurance Program (CHIP) **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall

Standard	Correlating Text Pages
	573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
○ Medicaid	**Instruction:** 25 1.3-3 Accessible Healthcare 26 1.3-4 Addressing the Issues 539 Government and Nonprofit Agencies 539 Centers for Medicare & Medicaid Services (CMS) 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 547 Introduction 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics 550 14.2-2 Origins of Health Insurance 550 Figure 14.13 Medicare 550 Medicaid 591 15.2-6 Following Healthcare Mandates **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
○ Medicare	**Instruction:** 25 1.3-3 Accessible Healthcare 26 1.3-4 Addressing the Issues 539 Government and Nonprofit Agencies 539 Centers for Medicare & Medicaid Services (CMS) 547 Lesson 14.2 Healthcare Economic Systems and Related Terms 547 Introduction 548 Figure 14.11 A Variety of Payment Systems 549 Figure 14.12 Healthcare Costs Have Risen Significantly 549 4.2-1 Insurance Basics 550 14.2-2 Origins of Health Insurance 550 Figure 14.13 Medicare

Standard	Correlating Text Pages
	591 15.2-6 Following Healthcare Mandates **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
○ Tricare	**Instruction:** 550 14.2-2 Origins of Health Insurance 551 TRICARE **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
○ Workers' Compensation	**Instruction:** 544 Support Services 550 14.2-2 Origins of Health Insurance 551 worker's compensation **Application:** 553 Lesson 14.2 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health
4.0 LEGAL RESPONSIBILITIES	
(Based on National Health Science Standards 5.1.1, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7) Describe legal responsibilities, limitations, and implications on healthcare worker actions.	
4.1 Legal Responsibilities and Implications	

Standard	Correlating Text Pages
4.1.1 Analyze legal responsibilities and implications of criminal and civil law.	
• Abuse	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 614 16.2-2 Avoiding Misconduct 614 Abuse, Neglect, and Other Torts 616 16.2-4 Privileged Communication and Mandatory Reporting 617 Healthcare Professions: Mandatory Reporting 618 Figure 16.8 Signs of Human Trafficking **Application:** 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Assault	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 614 16.2-2 Avoiding Misconduct 614 Abuse, Neglect, and Other Torts 615 assault **Application:** 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Battery	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 614 16.2-2 Avoiding Misconduct 614 Abuse, Neglect, and Other Torts 615 battery **Application:** 618 Lesson 16.2 Review

Standard	Correlating Text Pages
	635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Harassment	**Instruction:** 44 Workplace Harassment 627 Lesson 16.5 Employment Laws 632 16.5-4 Antiharassment Laws 632 harassment **Application:** 633 Lesson 16.5 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Invasion of privacy	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 615 16.2-3 Respecting Patient Privacy 615 invasion of privacy 615 Figure 16.6 Personal Information 616 Figure 16.7 Healthcare Workers Preserve Patient Privacy **Application:** 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Libel	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 615 16.2-3 Respecting Patient Privacy 616 libel

Standard	Correlating Text Pages
	Application: 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Malpractice	**Instruction:** 614 16.2-2 Avoiding Misconduct 613 Standard of Care and Malpractice 613 Figure 16.4 Failing to Properly Sterilize Medical Instruments Is Considered Malpractice **Application:** 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Negligence	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 613 Negligence **Application:** 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Slander	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 615 16.2-3 Respecting Patient Privacy

Standard	Correlating Text Pages
	616 slander **Application:** 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Tort	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 611 16.2-1 Working Within Your Scope of Practice 611 Scope of Practice and Liability 611 Healthcare Professions: Scope of Practice 613 Standard of Care and Malpractice 613 Negligence 614 16.2-2 Avoiding Misconduct 614 Misappropriation 614 Abuse, Neglect, and Other Torts 615 16.2-3 Respecting Patient Privacy 619 Lesson 16.3 Laws Protecting Patient Rights 619 Introduction **Application:** 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
4.2 Legal Practices	
4.2.1 Apply standards for the safety, privacy, and confidentiality of health information.	
• HIPAA	**Instruction:** 619 Lesson 16.3 Laws Protecting Patient Rights 621 16.3-3 Healthcare Privacy 621 Health Insurance Portability and Accountability Act (HIPAA) **Application:** 622 Lesson 16.3 Review

Standard	Correlating Text Pages
	635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
• Privileged communication	**Instruction:** 610 Lesson 16.2 Legal Responsibilities and Implications of Tort Law 616 16.2-4 Privileged Communication and Mandatory Reporting 616 privileged communication **Application:** 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
4.2.2 Describe Advance Directives.	**Instruction:** 620 16.3-2 Patient's Right to Participate in Treatment Decisions 620 advance directives **Application:** 622 Lesson 16.3 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
4.2.3 Summarize the essential characteristics of a patient's basic rights within a healthcare setting.	**Instruction:** 557 Patient Rights and Responsibilities 557 Figure 14.18 Consumers Have Rights 619 Lesson 16.3 Laws Protecting Patient Rights 620 16.3-1 Protecting Patient Access to Care 620 Figure 16.9 The ACA Placed Limits on Insurers and Expanded Healthcare Coverage

Standard	Correlating Text Pages
	620 16.3-2 Patient's Right to Participate in Treatment Decisions 621 Figure 16.10 Living Wills 621 16.3-3 Healthcare Privacy 622 Figure 16.11 Personal Health Information Must Be Protected **Application:** 571 Lesson 14.3 Review 573 Chapter 14 Reflect on Your Reading 573 Chapter 14 Review and Recall 573 Chapter 14 Build Core Skills 575 Chapter 14 Activate Your Learning 575 Chapter 14 Think and Act Like a Healthcare Worker 575 Chapter 14 Go to the Source 575 HOSA Event Prep: Public Health 622 Lesson 16.3 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
4.2.4 Differentiate informed, expressed, and implied consent.	**Instruction:** 608 16.1-2 Contract Law and Informed Consent 608 expressed 608 implied 608 informed consent 608 Figure 16.2 Informed Consent **Application:** 609 Lesson 16.1 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
4.2.5 Describe the concept of scope of practice.	**Instruction:** 312 Lesson 10.1 Working as Part of a Team 313 10.1-1 Effective Teams 314 Healthcare Professions: Working in a Team 315 10.1-2 Types of Healthcare Teams 317 10.1-3 Healthcare Team Interaction

Standard	Correlating Text Pages
	317 Delegating Tasks 317 Figure 10.5 Delegation 354 Professional Standards for Healthcare Workers 611 16.2-1 Working Within Your Scope of Practice 611 Scope of Practice and Liability 611 Healthcare Professions: Scope of Practice **Application:** 362 Chapter 10 Reflect on Your Reading 363 Chapter 10 Review and Recall 364 Chapter 10 Build Core Skills 365 Chapter 10 Activate Your Learning 365 Chapter 10 Think and Act Like a Healthcare Worker 365 Chapter 10 Go to the SOurce 618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
4.2.6 Interpret procedures for reporting activities and behaviors that affect health, safety, and welfare of others (incident report).	**Instruction:** 624 16.4-1 Reporting Health and Safety Incidents 624 incident report **Application:** 626 Lesson 16.4 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
5.0 ETHICS	
(Based on National Health Science Standards 6.1.1, 6.1.2, 6.2.1, 6.2.2) Understand accepted ethical practices with respect to cultural, social, and ethnic differences within the healthcare environment.	
Apply technical skills required for all career specialties and demonstrate skills and knowledge as appropriate.	
5.1 Ethical Practice	

Standard	Correlating Text Pages
5.1.1 Differentiate between ethical and legal issues impacting healthcare.	**Instruction:** 578 Lesson 15.1 Ethical Principles in Healthcare 578 Introduction 578 15.1-1 Defining Ethical Principles 579 15.1-2 Ethical Codes 580 Figure 15.2 Physician's Pledge 580 15.1-3 Ethical Dilemmas 582 15.1-4 Ethical Decision-Making 582 ethics committee 606 Lesson 16.1 Legal Basics 606 Introduction 606 16.1-1 Criminal Law Versus Civil Law 607 Figure 16.1 EMTALA 608 16.1-2 Contract Law and Informed Consent 608 Figure 16.2 Informed Consent **Application:** 582 Lesson 15.1 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate 609 Lesson 16.1 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
5.1.2 Identify ethical issues and their implications related to healthcare	
• Ethics committee	**Instruction:** 578 15.1-1 Defining Ethical Principles 579 15.1-2 Ethical Codes 582 15.1-4 Ethical Decision-Making 582 ethics committee **Application:** 582 Lesson 15.1 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning

Standard	Correlating Text Pages
	603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Euthanasia	**Instruction:** 580 15.1-3 Ethical Dilemmas 595 15.3-2 Genetic Testing **Application:** 582 Lesson 15.1 Review 599 Lesson 15.3 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Gene editing	**Instruction:** 595 15.3-2 Genetic Testing 596 15.3-4 Genetic Engineering 596 Figure 15.16 Genetic Engineering Is Used in Agriculture **Application:** 599 Lesson 15.3 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Immunizations	**Instruction:** 53 2.2-1 Infectious Agents 53 Types of Pathogens 281 9.2-1 Public Health and Preventive Care Strategies 591 15.2-6 Following Healthcare Mandates
• In vitro fertilization	**Instruction:** 593 Figure 15.13 The First In Vitro Fertilization 597 15.3-5 Stem Cell Research 597 Figure 15.17 Types of Stem Cells

Standard	Correlating Text Pages
	Application: 599 Lesson 15.3 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Organ donation/transplantation	**Instruction:** 580 15.1-3 Ethical Dilemmas 581 Figure 15.3 Organ Transplantation 587 Figure 15.9 Belief Systems May Influence Care Decisions **Application:** 582 Lesson 15.1 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Scope of practice	**Instruction:** 312 Lesson 10.1 Working as Part of a Team 313 10.1-1 Effective Teams 314 Healthcare Professions: Working in a Team 315 10.1-2 Types of Healthcare Teams 317 10.1-3 Healthcare Team Interaction 317 Delegating Tasks 317 Figure 10.5 Delegation 354 Professional Standards for Healthcare Workers 611 16.2-1 Working Within Your Scope of Practice 611 Scope of Practice and Liability 611 Healthcare Professions: Scope of Practice **Application:** 362 Chapter 10 Reflect on Your Reading 363 Chapter 10 Review and Recall 364 Chapter 10 Build Core Skills 365 Chapter 10 Activate Your Learning 365 Chapter 10 Think and Act Like a Healthcare Worker 365 Chapter 10 Go to the SOurce

Standard	Correlating Text Pages
	618 Lesson 16.2 Review 635 Chapter 16 Reflect on Your Reading 635 Chapter 16 Review and Recall 636 Chapter 16 Build Core Skills 637 Chapter 16 Activate Your Learning 637 Chapter 16 Think and Act Like a Healthcare Worker 637 Chapter 16 Go to the Source 637 HOSA Event Prep: Medical Law and Ethics
5.2 Cultural, Social, and Ethnic Diversity	
5.2.1 Discuss religious and cultural values as they impact healthcare.	
• Ageism	**Instruction:** 585 15.2-3 Respecting Diversity 586 Figure 15.7 Cultural Issues May Affect Healthcare Communication 587 15.2-4 Challenging Cultural Norms **Application:** 592 Lesson 15.2 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Ethnicity	**Instruction:** 585 15.2-3 Respecting Diversity 586 Figure 15.7 Cultural Issues May Affect Healthcare Communication 587 Figure 15.9 Belief Systems May Influence Care Decisions 587 15.2-4 Challenging Cultural Norms **Application:** 592 Lesson 15.2 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate

Standard	Correlating Text Pages
• Gender	**Instruction:** 585 15.2-3 Respecting Diversity 586 Figure 15.7 Cultural Issues May Affect Healthcare Communication 587 Figure 15.9 Belief Systems May Influence Care Decisions 587 15.2-4 Challenging Cultural Norms **Application:** 592 Lesson 15.2 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Race	**Instruction:** 585 15.2-3 Respecting Diversity 586 Figure 15.7 Cultural Issues May Affect Healthcare Communication 587 Figure 15.9 Belief Systems May Influence Care Decisions 587 15.2-4 Challenging Cultural Norms **Application:** 592 Lesson 15.2 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Religion	**Instruction:** 585 15.2-3 Respecting Diversity 586 Figure 15.7 Cultural Issues May Affect Healthcare Communication 587 Figure 15.9 Belief Systems May Influence Care Decisions 587 15.2-4 Challenging Cultural Norms **Application:** 592 Lesson 15.2 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills

Standard	Correlating Text Pages
	603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
5.2.2 Demonstrate respectful and empathetic treatment of ALL patients/clients.	
• Civility	**Instruction:** 585 15.2-2 Providing Patient-Centered Care **Application:** 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Customer service	**Instruction:** 583 15.2-1 Soft Skills 585 15.2-2 Providing Patient-Centered Care **Application:** 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 HOSA Event Prep: Biomedical Debate
• Patient satisfaction	**Instruction:** 585 15.2-2 Providing Patient-Centered Care 585 Figure 15.6 Stress of Illness Affects Everyone Differently **Application:** 592 Lesson 15.2 Review 601 Chapter 15 Reflect on Your Reading 601 Chapter 15 Review and Recall 602 Chapter 15 Build Core Skills 603 Chapter 15 Activate Your Learning 603 Chapter 15 Think and Act Like a Healthcare Worker 603 Chapter 15 Go to the Source 603 Chapter 15 HOSA Event Prep: Biomedical Debate

Standard	Correlating Text Pages
5.2.3 Discuss physical, mental, social and behavioral development and its impact on healthcare across the lifespan.	
• Identify the stages of death and dying	**The Goodheart-Wilcox** *Introduction to Health Science, 2nd Edition* **textbook does not specifically address this standard, however, please see the attached reference link.** Hospice Foundation When death is near: Signs and symptoms - Hospice Foundation of America
• Healthcare across the lifespan	**Instruction:** 266 Lesson 9.1 Physical Health, Wellness, and Self-Care Practices 266 Introduction 267 9.1-1 Physical Development and Wellness 267 Figure 9.2 Children Learn Through Play 268 9.1-2 Choosing Nutritious Foods 268 Figure 9.3 Six Essential Nutrients 269 Figure 9.4 Food Energy Values by Macronutrients 269 Nutrients 270 Figure 9.5 Unsaturated Fats 271 Guidelines for Healthy Eating 271 Figure 9.6 Dietary Guidelines for Americans 272 Figure 9.7 MyPlate Diagram 272 Nutrition Labels 272 Figure 9.8 Nutrition Facts Label 273 Figure 9.9 Ingredients Lists 274 9.1-3 Physical Activity 274 Figure 9.10 Calories Burned per Hour of Physical Activity 275 9.1-4 Managing Your Weight 275 Figure 9.11 Physical Activities 275 9.1-5 Sleep Habits 275 Healthy Sleep 276 Sleep Deficit 276 Figure 9.12 Tips for Better Sleep 276 Healthcare Professions: Students and Sleep 277 9.1-6 Managing Stress Through Self-Care 277 Figure 9.13 Emergency Workers Must Remain Calm 277 Healthcare Professions: Effects of Stress 278 9.1-7 Healthy Relationships 278 Figure 9.14 Signs of Healthy Relationships 278 Communication and Boundaries 279 Healthy Emotional Relationships 281 9.2-1 Public Health and Preventative Care Strategies

Standard	Correlating Text Pages
	281 Personal Hygiene 281 Figure 9.15 Daily Grooming 281 Routine Health Screenings and Examinations 283 Vaccinations 283 Oral Health 283 Figure 9.17 Dental Cleanings 286 9.3-1 Mental and Behavioral Development 287 Figure 9.19 Maslow's Five Levels of Need 287 Influences on Behavior 287 Figure 9.20 Erikson's Stages of Psychosocial Development **Application:** 279 Lesson 9.1 Review 285 Lesson 9.2 Review 295 Lesson 9.3 Review 307 Chapter 9 Reflect on Your Reading 307 Chapter 9 Review and Recall 308 Chapter 9 Build Core Skills 309 Chapter 9 Activate Your Learning 309 Chapter 9 Think and Act Like a Healthcare Worker 309 Chapter 9 Go to the Source 309 HOSA Event Prep: Healthy Lifestyle
5.2.4 Identify health disparities that impact health and wellness	**Instruction:** 284 9.2-2 Supporting Public Health 284 Figure 9.18 Examples of Social Determinants of Health 284 Community Health Education Outreach 285 Addressing Food Insecurity **Application:** 285 Lesson 9.2 Review 307 Chapter 9 Reflect on Your Reading 307 Chapter 9 Review and Recall 308 Chapter 9 Build Core Skills 309 Chapter 9 Activate Your Learning 309 Chapter 9 Think and Act Like a Healthcare Worker 309 Chapter 9 Go to the Source 309 HOSA Event Prep: Healthy Lifestyle
6.0 MEDICAL MATHEMATICS	
(Based on National Health Science Standards 1.3.1, 1.3.2, 1.3.3) Apply math principles integral to medical applications.	
6.1. Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare.	
6.1.1 Metric system	

Standard	Correlating Text Pages
• Centi-	**Instruction:** 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 474 Metric System 474 Figure 13.2 The Metric System **Application:** 479 Lesson 13.1 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Deci-	**Instruction:** 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 474 Metric System 474 Figure 13.2 The Metric System **Application:** 479 Lesson 13.1 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Kilo-	**Instruction:** 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 474 Metric System 474 Figure 13.2 The Metric System **Application:** 479 Lesson 13.1 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker

Standard	Correlating Text Pages
	531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Milli-	**Instruction:** 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 474 Metric System 474 Figure 13.2 The Metric System **Application:** 479 Lesson 13.1 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Micro	**Instruction:** 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 474 Metric System 474 Figure 13.2 The Metric System **Application:** 479 Lesson 13.1 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
6.1.2 Mathematical Operations	
• Addition / Subtraction	**Instruction:** 480 Lesson 13.2 Healthcare Tasks That Use Basic Math Skills 480 Introduction **Application:** 496 Lesson 13.2 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills

Standard	Correlating Text Pages
	531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Average	**Instruction:** 480 Lesson 13.2 Healthcare Tasks That Use Basic Math Skills 480 Introduction 513 13.4-1 Understanding Numerical Data 511 Healthcare Professions: Average Confusion **Application:** 496 Lesson 13.2 Review 527 Lesson 13.4 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Fractions	**Instruction:** 480 Lesson 13.2 Healthcare Tasks That Use Basic Math Skills 480 Introduction **Application:** 496 Lesson 13.2 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Multiplication / Division	**Instruction:** 480 Lesson 13.2 Healthcare Tasks That Use Basic Math Skills 480 Introduction **Application:** 496 Lesson 13.2 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall

Standard	Correlating Text Pages
	530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Percentages	**Instruction:** 480 Lesson 13.2 Healthcare Tasks That Use Basic Math Skills 480 Introduction 521 13.4-5 Interpreting Statistical Data 521 Figure 13.49 Understanding Percentages and Types of Risk Assessment 521 Percentages and Probability **Application:** 496 Lesson 13.2 Review 527 Lesson 13.4 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Ratios	**Instruction:** 475 United States Customary Units 475 Figure 13.3 Common Household Measurements and Equivalents 480 Lesson 13.2 Healthcare Tasks That Use Basic Math Skills 480 Introduction **Application:** 479 Lesson 13.1 Review 496 Lesson 13.2 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math

Standard	Correlating Text Pages
6.1.3 Conversions	
• Height (inches/meters)	**Instruction:** 326 10.2-1 Measuring Vital Signs 326 Height and Weight 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 475 United States Customary Units 475 Figure 13.3 Common Household Measurements and Equivalents 476 13.1-2 Converting Between Systems of Measurement 476 Figure 13.4 Equivalents for Conversion 477 Figure 13.5 Conversion Table: Metric to Household and Household to Metric 514 13.4-3 Charting Height, Weight, and BMI 517 Measurements for Infants and Children 517 Figure 13.44 CDC Growth Charts 518 Figure 13.45 Measurements in Ounces and Inches 519 Figure 13.46 Child's Percentile Indicators **Application:** 479 Lesson 13.1 Review 508 Lesson 13.3 Review 527 Lesson 13.4 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Household measurements (tbsp/tsp/cup/oz)	**Instruction:** 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 475 United States Customary Units 475 Figure 13.3 Common Household Measurements and Equivalents 476 13.1-2 Converting Between Systems of Measurement 476 Figure 13.4 Equivalents for Conversion 477 Figure 13.5 Conversion Table: Metric to Household and Household to Metric 478 Figure 13.6 Visual Reference for Common Metric Measurements 497 Lesson 13.3 Healthcare Tasks That Use Mathematical Conversions

Standard	Correlating Text Pages
	499 13.3-2 Measuring Food 500 Figure 13.29 Accurate Liquid Measurements 500 13.3-3 Using Standardized Recipes 501 Figure 13.30 USDA Recipe Shows Distinct Parts of a Standardized Recipe 502 Adjusting Recipe Yields 502 Figure 13.31 Recipe Ingredient Conversions **Application:** 479 Lesson 13.1 Review 508 Lesson 13.3 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Length (inches/meters)	**Instruction:** 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 475 United States Customary Units 475 Figure 13.3 Common Household Measurements and Equivalents 476 13.1-2 Converting Between Systems of Measurement 476 Figure 13.4 Equivalents for Conversion 477 Figure 13.5 Conversion Table: Metric to Household and Household to Metric 478 Figure 13.6 Visual Reference for Common Metric Measurements **Application:** 479 Lesson 13.1 Review 508 Lesson 13.3 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Temperature (°F/°C)	**Instruction:** 328 Temperature 328 Figure 10.18 Normal Temperature Ranges for Adults and Children

Standard	Correlating Text Pages
	472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 475 United States Customary Units 475 Figure 13.3 Common Household Measurements and Equivalents 476 13.1-2 Converting Between Systems of Measurement 476 Figure 13.4 Equivalents for Conversion 477 Figure 13.5 Conversion Table: Metric to Household and Household to Metric 497 Lesson 13.3 Healthcare Tasks That Use Mathematical Conversions 497 13.3-1 Temperature Conversions 498 Figure 13.28 Average Temperature Ranges **Application:** 479 Lesson 13.1 Review 508 Lesson 13.3 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Volume (mL/cc)	**Instruction:** 472 Lesson 13.1 Measurement Systems and Conversions 472 13.1-1 Systems of Measurement 475 United States Customary Units 475 Figure 13.3 Common Household Measurements and Equivalents 476 13.1-2 Converting Between Systems of Measurement 476 Figure 13.4 Equivalents for Conversion 477 Figure 13.5 Conversion Table: Metric to Household and Household to Metric 478 Figure 13.6 Visual Reference for Common Metric Measurements **Application:** 479 Lesson 13.1 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker

Standard	Correlating Text Pages
	531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
• Weight/mass (pounds/grams)	**Instruction:** 326 10.2-1 Measuring Vital Signs 326 Height and Weight 475 United States Customary Units 475 Figure 13.3 Common Household Measurements and Equivalents 476 13.1-2 Converting Between Systems of Measurement 476 Figure 13.4 Equivalents for Conversion 477 Figure 13.5 Conversion Table: Metric to Household and Household to Metric 478 Figure 13.6 Visual Reference for Common Metric Measurements 514 13.4-3 Charting Height, Weight, and BMI 517 Measurements for Infants and Children 517 Figure 13.44 CDC Growth Charts 518 Figure 13.45 Measurements in Ounces and Inches 519 Figure 13.46 Child's Percentile Indicators **Application:** 479 Lesson 13.1 Review 527 Lesson 13.4 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
6.2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results.	**Instruction:** 512 13.4-2 Reading and Interpreting Charts and Graphs 513 Figure 13.38 Bar-Graph Chart Format 513 Figure 13.39 Graph Using Blocks of Color 514 Figure 13.40 Charts Display the Same Data **Application:** 527 Lesson 13.4 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source

Standard	Correlating Text Pages
	531 HOSA Event Prep: Medical Math 634 Chapter 16 Maximize Your Professional Vocabulary
6.3 Demonstrate use of the 24-hour clock/military time.	**Instruction:** 478 13.1-3 The 24-Hour Clock 478 Figure 13.7 The 24-Hour Clock **Application:** 479 Lesson 13.1 Review 528 Chapter 13 Reflect on Your Reading 529 Chapter 13 Review and Recall 530 Chapter 13 Build Core Skills 531 Chapter 13 Activate Your Learning 531 Chapter 13 Think and Act Like a Healthcare Worker 531 Chapter 13 Go to the Source 531 HOSA Event Prep: Medical Math
7.0 INFORMATION TECHNOLOGY IN HEALTHCARE	
(Based on National Health Science Standards 11.1.1, 11.1.2, 11.1.3, 11.1.4) Apply information technology practices common across health professions.	
7.1 Key Principles, components, and practices of Health Information Systems	
7.1.1 Identify components of an electronic health record (EHR) and/or electronic medical record (EMR).	
• Diagnostic tests	**Instruction:** 437 Lesson 12.2 Documentation in an Electronic Health Record 437 12.2-1 Components of an Electronic Health Record 438 Information in the Medical Record 438 Figure 12.8 Personal and Clinical Data Are Included in a Patient's Medical Record 439 Reports 440 Organization of Medical Record Information **Application:** 446 Lesson 12.2 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and At Like a Healthcare Worker 469 Chapter 12 Go to the Source
• History and physical	**Instruction:** 437 Lesson 12.2 Documentation in an Electronic Health Record

Standard	Correlating Text Pages
	437 12.2-1 Components of an Electronic Health Record 438 Information in the Medical Record 438 Figure 12.8 Personal and Clinical Data Are Included in a Patient's Medical Record 438 History and Physical 440 Organization of Medical Record Information **Application:** 446 Lesson 12.2 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and At Like a Healthcare Worker 469 Chapter 12 Go to the Source
• Medications	**Instruction:** 437 Lesson 12.2 Documentation in an Electronic Health Record 437 12.2-1 Components of an Electronic Health Record 438 Information in the Medical Record 438 Figure 12.8 Personal and Clinical Data Are Included in a Patient's Medical Record 440 Medication Administration 440 Organization of Medical Record Information **Application:** 446 Lesson 12.2 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and At Like a Healthcare Worker 469 Chapter 12 Go to the Source
• Patient demographics	**Instruction:** 437 Lesson 12.2 Documentation in an Electronic Health Record 437 12.2-1 Components of an Electronic Health Record 438 Information in the Medical Record 438 Figure 12.8 Personal and Clinical Data Are Included in a Patient's Medical Record 440 Organization of Medical Record Information **Application:** 446 Lesson 12.2 Review

Standard	Correlating Text Pages
	467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and At Like a Healthcare Worker 469 Chapter 12 Go to the Source
• Progress notes	**Instruction:** 437 Lesson 12.2 Documentation in an Electronic Health Record 437 12.2-1 Components of an Electronic Health Record 438 Information in the Medical Record 438 Figure 12.8 Personal and Clinical Data Are Included in a Patient's Medical Record 439 Progress Notes 439 Figure 12.9 The SOAP Format 440 Organization of Medical Record Information **Application:** 446 Lesson 12.2 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and At Like a Healthcare Worker 469 Chapter 12 Go to the Source
• Treatment Plan	**Instruction:** 437 Lesson 12.2 Documentation in an Electronic Health Record 437 12.2-1 Components of an Electronic Health Record 438 Information in the Medical Record 438 Figure 12.8 Personal and Clinical Data Are Included in a Patient's Medical Record 440 Organization of Medical Record Information **Application:** 446 Lesson 12.2 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and At Like a Healthcare Worker 469 Chapter 12 Go to the Source

Standard	Correlating Text Pages
7.1.2 Evaluate types of health data collection tools.	
• Medical wearable devices	**Instruction:** 447 Lesson 12.3 Technological Developments in Healthcare 448 12.3-1 Computerized Therapeutic Equipment 448 Figure 12.15 Technology Such as Wearable Devices 450 12.3-3 Telehealth and Telemedicine 450 Therapeutic Telemedicine 450 Figure 12.17 Mobile Health Programs 455 NFC Technology 455 Figure 12.22 Sensor Uses NFC Technology **Application:** 465 Lesson 12.3 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and Act Like a Healthcare Worker 469 Chapter 12 Go to the Source 469 HOSA Event Prep: Medical Innovation
• Patient monitoring equipment	**Instruction:** 447 Lesson 12.3 Technological Developments in Healthcare 448 12.3-1 Computerized Therapeutic Equipment 448 Figure 12.15 Technology Such as Wearable Devices 450 12.3-3 Telehealth and Telemedicine 450 Therapeutic Telemedicine 450 Figure 12.17 Mobile Health Programs 452 12.3-4 Diagnostic Applications 453 Figure 12.20 Automated Analyzing Equipment 453 2.3-5 Support Services Applications 454 Barcode Technology 455 NFC Technology 455 Figure 12.22 Sensor Uses NFC Technology **Application:** 465 Lesson 12.3 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and Act Like a Healthcare Worker 469 Chapter 12 Go to the Source 469 HOSA Event Prep: Medical Innovation

Standard	Correlating Text Pages
• Phone application	**Instruction:** 449 12.3-2 Social Media 449 Advantages 449 Figure 12.16 Social Media Guidelines for Healthcare Professionals 450 Concerns 450 12.3-3 Telehealth and Telemedicine 450 Therapeutic Telemedicine 450 Figure 12.17 Mobile Health Programs 451 Figure 12.18 Accessing Teletherapy Appointments at Home 451 Diagnostic Telemedicine 454 QR Technology 455 NFC Technology 455 Figure 12.22 Sensor Uses NFC Technology 456 Food Service Applications 456 Figure 12.23 Dieticians Use Diet Analysis Programs 457 12.3-6 Biotechnology Research and Development Applications **Application:** 465 Lesson 12.3 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and Act Like a Healthcare Worker 469 Chapter 12 Go to the Source 469 HOSA Event Prep: Medical Innovation
• Telemedicine/telehealth	**Instruction:** 450 12.3-3 Telehealth and Telemedicine 450 Therapeutic Telemedicine 450 Figure 12.17 Mobile Health Programs 451 Figure 12.18 Accessing Teletherapy Appointments at Home 451 Diagnostic Telemedicine **Application:** 465 Lesson 12.3 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and Act Like a Healthcare Worker

Standard	Correlating Text Pages
	469 Chapter 12 Go to the Source 469 HOSA Event Prep: Medical Innovation
7.1.3 Create electronic documentation that reflects timeliness, completeness, and accuracy.	**Instruction:** 437 Lesson 12.2 Documentation in an Electronic Health Record 437 12.2-1 Components of an Electronic Health Record 438 Information in the Medical Record 438 Figure 12.8 Personal and Clinical Data Are Included in a Patient's Medical Record 439 Figure 12.9 The SOAP Format 440 Organization of Medical Record Information 440 12.2-2 Medical Documentation 441 Guidelines for Documentation 441 Figure 12.10 Draw Lines through Blank Lines 442 Figure 12.11 Out-of-Order Entry Confuses Progress Notes 442 Electronic Charting and e-Prescribing 443 Figure 12.12 Electronic Health Records 443 Healthcare Professions: Electronic Records 444 Figure 12.13 E-Prescribing Software 445 Figure 12.14 Healthcare Workers Use the Patient's Face Sheet 446 12.2-3 Correcting Errors in the Electronic Record **Application:** 446 Lesson 12.2 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and At Like a Healthcare Worker 469 Chapter 12 Go to the Source
7.1.4 Adhere to information systems policies, procedures, and regulations as required by national, state, and local entities.	**Instruction:** 431 12.1-2 Government Influences 431 Figure 12.2 Office-Based Physician Electronic Health Record Adoption 431 Figure 12.3 Electronic Health Records Systems 432 Anticipated Benefits 432 Figure 12.4 Anticipated Benefits of Electronic Health Record 433 Figure 12.5 Breaches of Privacy or Security through Email 433 Unintended Consequences 435 12.1-4 Personal Health Records (PHRs) 435 Advantages of PHRs

Standard	Correlating Text Pages
	435 Risks of PHRs 621 16.3-3 Healthcare Privacy 622 Figure 16.11 Protecting Personal Health Information **Application:** 436 Lesson 12.1 Review 467 Chapter 12 Reflect on Your Reading 467 Chapter 12 Review and Recall 468 Chapter 12 Build Core Skills 469 Chapter 12 Activate Your Learning 469 Chapter 12 Think and At Like a Healthcare Worker 469 Chapter 12 Go to the Source 622 Lesson 16.3 Review
8.0 TECHNICAL SKILLS*	
(Based on National Health Science Standards 10.1.1, 10.1.2) Apply information technology practices common across health professions. Apply and demonstrate technical skills and knowledge common to health career specialties.	
8.1 Demonstrate procedures for measuring and recording vital signs in both normal and abnormal ranges – including but not limited to:	
• Blood pressure	**Instruction:** 325 Lesson 10.2 Learning Universal Technical Skills 326 10.2-1 Measuring Vital Signs 333 Blood Pressure 333 Figure 10.27 Blood Pressure Readings 334 Figure 10.28 Blood Pressure Classifications for Adults 334 Figure 10.29 Sphygmomanometers 335 Figure 10.30 Long Line on the Manometer Gauge 335 Procedure: Measuring Blood Pressure 336 10.2-2 Graphing Vital Signs 337 Figure 10.32 Vital Signs Are Entered into a Table 339 Figure 10.33 Charting Vital Signs **Application:** 343 Lesson 10.2 Review 362 Chapter 10 Reflect on Your Reading 363 Chapter 10 Review and Recall 364 Chapter 10 Build Core Skills 365 Chapter 10 Activate Your Learning 365 Chapter 10 Think and Act Like a Healthcare Worker 365 Chapter 10 Go to the Source

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