

Instructional Guide

Grade Level Seventh

Subject Life Science School System Pickens County

School Year 2011-2012

* Bolded eligible content areas are the lowest state testing scores

Time Period (Pacing – when)	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
1 st 9-weeks	CS 1 EC -Describe how organisms are comprised of at least one cell.	7.1. C. Describe the characteristics common to living things, including cellular organization	Glencoe Life Science Textbook pages: 14-18, 66-69, 70-85 Workbook pages: add in Internet sources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 1 EC -Describe how organisms use energy to undergo life processes.	7.1. D. Describe the characteristic common to living things, including use of energy.	Glencoe Life Science Textbook pages: 14-18, 66-69, 70-85 Workbook pages: add in Internet sources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 1 EC -Describe how organisms exchange gases such as oxygen, carbon dioxide, and nitrogen.	7.1. E. Describe the characteristic common to living things. Including exchange of gasses.	Glencoe Life Science Textbook pages: 14-18, 66-69, 70-85 Workbook pages: add in Internet sources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 1 EC -Describe how organism grow and develop, as can be reflected by changes in size and maturity.	7.1. a. Describe the characteristics common to living things, including growth and development	Glencoe Life Science Textbook pages: 14-18, 66-69, 70-85 Workbook pages: add in Internet sources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 1 EC -Describe how organisms reproduce using sexual and/or asexual reproduction	7.1. b. Describe the characteristics common to living things, including reproduction.	Glencoe Life Science Textbook pages: 14-18, 66-69, 70-85 Workbook pages: add in Internet sources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 1 EC Describe how organisms respond to environmental stimuli.	7.1. f. Describe the characteristics common to living things, including their respond to the environment.	Glencoe Life Science Textbook pages: 14-18, 66-69, 70-85 Workbook pages: add in Internet sources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 1 EC Describe how organisms respond to environmental stimuli.	7.1. B.1.a. Identify homeostasis as the process by which an organism responds to its internal environment.	Glencoe Life Science Textbook pages: 15, 18 ,520, 595, 601, 611 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 1 EC Describe how organisms respond to environmental stimuli.	7.1. B.1.b. Identify homeostasis as the process by which an organisms responds to its external environment	Glencoe Life Science Textbook pages: 15, 18 ,520, 595, 601, 611 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 1 EC Describe how organisms respond to environmental stimuli.	7.1. B.2. Predicting how an organism’s behavior impacts the environment	Glencoe Life Science Textbook pages: 462-440, 696-700 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 1 EC Describe how organisms respond to environmental stimuli.	7.1. B.3.a Identifying unicellular organisms, including bacteria and protists, by their methods of locomotion.	Glencoe Life Science Textbook pages: 186-191, 193-199, 210-219, 228, 229 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 1 EC -Describe how organisms reproduce using sexual and/or asexual reproduction	7.1. B.3.b. Identifying unicellular organisms, including bacteria and protists, by their reproduction.	Glencoe Life Science Textbook pages: 186-191, 193-199, 210-219, 228, 229 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 1 EC -Describe how organisms use energy to undergo life processes	7.1. B.3.c. Identifying unicellular organisms, including bacteria and protists, by their ingestion.	Glencoe Life Science Textbook pages: 186-191, 193-199, 210-219, 228, 229 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 1 EC -Describe how organisms use energy to undergo life processes	7.1. B.3.d. Identifying unicellular organisms, including bacteria and protists, by their excretion.	Glencoe Life Science Textbook pages: 186-191, 193-199, 210-219, 228, 229 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 1 EC Describe how organisms respond to environmental stimuli.	7.1. B.4.e. Identifying unicellular organisms, including bacteria and protists, by their affects on other organisms	Glencoe Life Science Textbook pages: 186-191, 193-199, 210-219, 228, 229 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks		7.1. B.4 Identifying the structure of a virus.	Glencoe Life Science Textbook pages: 52-55, Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks		7.2. B. 1. Identifying components of cell theory.	Glencoe Life Science Textbook pages:47-51 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks		7.2. B.2.a. Identifying cells as prokaryotic. 7.2. B.2.b. Identify cells as eukaryotic.	Glencoe Life Science Textbook pages: 39 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 2 EC Identify and describe the function of the nucleus...	. 7.2. a. identify functions of organelles found in eukaryotic cells, including the nucleus	Glencoe Life Science Textbook pages: 38-45 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 2 EC Identify and describe the function of the cell membrane	. 7.2. b. Identify functions of organelles found in eukaryotic cells, including cell membrane	Glencoe Life Science Textbook pages: 38-45 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 2 EC Identify and describe the function of the cell wall.	7.2. c. Identify functions of organelles found in eukaryotic cells, including cell wall	Glencoe Life Science Textbook pages: 38-45 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 2 EC Identify and describe the function of the mitochondria	. 7.2. d. Identify functions of organelles found in eukaryotic cells, including the mitochondria.	Glencoe Life Science Textbook pages: 38-45 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	. CS 2 EC I identify and describe the function of chloroplast	7.2. e. Identify functions of organelles found in eukaryotic cells, including the chloroplast	Glencoe Life Science Textbook pages: 38-45 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	. CS 2 EC Identify and describe the function of vacuoles.	7.2.f. Identify functions of organelles found in eukaryotic cells, including the vacuoles	Glencoe Life Science Textbook pages: 38-45 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks		7.2. B.3. Listing the sequence of the mitotic cell cycle.	Glencoe Life Science Textbook pages: 96-99 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks		7.3. B. 4. Arranging in order the organizational levels of the human body from the cell through the organ systems	Glencoe Life Science Textbook pages: 45, 484-631 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 3 EC Recognize the skeletal system and describe its function.	7.3. a. Relate the major tissues and organs of the skeletal system to their function.	Glencoe Life Science Textbook pages: 484-489 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 3 EC Recognize that the circulatory system carries oxygen, carbon dioxide, wastes, and nutrients throughout the body.	7.3. b. Relate the major tissues and organs of the circulatory system to their function.	Glencoe Life Science Textbook pages: 540-545, 550, 551 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 3 EC Recognize that the reproductive system allows for production of offspring and the continuation of life.	7.3. c. Relate the major tissues and organs of the reproductive system to their function.	Glencoe Life Science Textbook pages: 627-629 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 3 EC Recognize that the muscular system supports and enables the body to move, produces heat and gives the body shape.	7.3. d. Relate the major tissues and organs of the muscular system to their function.	Glencoe Life Science Textbook pages: 490-495 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 3 EC Recognize that the respiratory system provides the body with oxygen and removes carbon dioxide from the blood.	7.3. e. Relate the major tissues and organs of the respiratory system to their function.	Glencoe Life Science Textbook pages: 568-572 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 3 EC Recognize that the nervous system gathers and interprets information and responds to that information.	7.3. f. relates the major tissues and organs of the nervous system to their function.	Glencoe Life Science Textbook pages: 594-611 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 3 EC Recognize that the digestive system breaks down food, either chemically or physically (mechanically), process it for use by the body, and excretes waste products.	7.3. g. Relate the major tissues and organs of the digestive system to their function.	Glencoe Life Science Textbook pages: 523-529 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 4 EC Identify characteristics of each kingdom and provides examples	7.4. Describe organisms in the six-kingdom classification system by their characteristics	Glencoe Life Science Textbook pages: 22-26 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 4 EC	7.4. B.1. Recognizing genus and species as components of a scientific name.	Glencoe Life Science Textbook pages: 24 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 4 EC	7.4. B.2.a. Identifying contributions of Aristotle to the early history of taxonomy	Glencoe Life Science Textbook pages: 22-23 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 4 EC	7.4. B.2.b. identifying contributions of Linnaeus to the early history of taxonomy.	Glencoe Life Science Textbook pages: 22-23 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 5 EC Identify differences in internal cellular structures like chloroplasts and cell walls, external structures, method of locomotion, sexual and asexual methods of reproduction, and stages of development.	7.5. a. Identify major differences between plants and animals, including internal structures.	Glencoe Life Science Textbook pages: chapters 9-11, 12-16 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 5 EC Identify differences in internal cellular structures like chloroplasts and cell walls, external structures, method of locomotion, sexual and asexual methods of reproduction, and stages of development	7 .5.b. Identify major differences between plants and animals, including external structures.	Glencoe Life Science Textbook pages: chapters 9-11, 12-16 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 5 EC Identify animals as interdependent and plants as nonmobile	7.5. c. Identify major differences between plants and animals, including methods of locomotion.	Glencoe Life Science Textbook pages: chapters 9-11, 12-16 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 5 EC Identify differences in internal cellular structures like chloroplasts and cell walls, external structures, method of locomotion, sexual and asexual methods of reproduction, and stages of development	7.5. d. identifies major differences between plants and animals, including methods of reproduction.	Glencoe Life Science Textbook pages: chapters 9-11, 12-16 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 5 EC Identify differences in internal cellular structures like chloroplasts and cell walls, external structures, method of locomotion, sexual and asexual methods of reproduction, and stages of development	7.5. e. Identify major differences between plants and animals, including stages of development.	Glencoe Life Science Textbook pages: chapters 9-11, 12-16 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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1 st 9-weeks	CS 5 EC	7.5. B.1. Describing the process of photosynthesis	Glencoe Life Science Textbook pages: 82, 302-307 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
1 st 9-weeks	CS 5 EC	7.5. B.2. Describing the process of cellular respiration	Glencoe Life Science Textbook pages: 83, 307-308 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks		7.6. a. Describe evidence of species variation due to climate.	Glencoe Life Science Textbook pages: 114, 115 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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2 nd 9-weeks	CS 6 EC Describe evidence of species variation due to geographic isolations such as a population becoming separated by a mountain range, an island breaking off from a mainland, as in the case of Australia.	7.6. b. Describe evidence of species variation due to changing landforms.			

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2 nd 9-weeks	CS 6 EC Describe evidence of species variation due to interspecies interaction by recognizing the roles of parasitism, mutualism, and commensalism.	7.6. c. Describe evidence of species variation due to interspecies interaction.	Glencoe Life Science Textbook pages: 114, 115 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 6 EC Recognize that genetic mutation leads to diversity within a species which can lead to speciation.	7.6. d. Describe evidence of species variation due to genetic mutation.	Glencoe Life Science Textbook pages: none Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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2 nd 9-weeks	CS 7 EC Describe biotic and abiotic factors and recognizes examples	7.7. Describe biotic and abiotic factors in the environment.	Glencoe Life Science Textbook pages: ,712-718, Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 7 EC	7.7. B.1. Classifying organisms as autotrophs and heterotrophs.	Glencoe Life Science Textbook pages: 82,83, 696-697 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 7 EC	7.7. B.2.a. Arranging the sequence of energy flow in an ecosystem through food webs	Glencoe Life Science Textbook pages: 728 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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2 nd 9-weeks	CS 7 EC	7.7.B.2.b. Arranging the sequence of energy flow in an ecosystem through food chains	Glencoe Life Science Textbook pages: 727 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 7 EC	7.7.B.2.c. Arranging the sequence of energy flow in an ecosystem through energy pyramids	Glencoe Life Science Textbook pages: 728-729 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 8 EC Recognize that chromosomes control cell processes and determine traits of an entire organism.	7.8. Describe the function of chromosomes.	Glencoe Life Science Textbook pages: 98,100, 104-107, 109, 126-127, Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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2 nd 9-weeks	CS 8 EC	7.8. B. Identifying genes as parts of chromosomes that carry genetic traits.	Glencoe Life Science Textbook pages: 98,100, 104-107, 109, 126-127 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 9 EC Describe and identify the process of chromosome reduction in the production of sperm during meiosis.	7.9. a. Identify the process of chromosomes reduction in the production of sperm during meiosis.	Glencoe Life Science Textbook pages: 104-109 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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2 nd 9-weeks	CS 9 EC Describe and identify the process of chromosome reduction in the production of egg cells during meiosis	7.9.b. Identify the process of chromosome reduction in the production of egg cells during meiosis	Glencoe Life Science Textbook pages: 104-109 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 10 EC- Identify the bases of DNA and RNA. Differentiate between nucleic acid sugars found in DNA and RNA	7.10. Identify differences between deoxyribonucleic acid (DNA) and ribonucleic acid (RNA).	Glencoe Life Science Textbook pages: 110-114 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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2 nd 9-weeks	CS 10 EC Describe the structures of DNA and RNA	7.10.B. Identifying Watson and Crick as scientists who discovered the shape of the DNA molecule	Glencoe Life Science Textbook pages: 111 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 11 EC Know and apply the laws of dominance, segregation and independent assortment. Define homozygous, heterozygous, genotype, phenotype, and alleles.	7.11. Identify Mendel’s laws of genetics	Glencoe Life Science Textbook pages: 126-132 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		

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2 nd 9-weeks	CS 11 EC	7.11. B.1.a. Recognizing Sickle cell anemia as inherited genetic disorders	Glencoe Life Science Textbook pages: 555 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 11 EC	7.11.B.1.b. Recognizing Down’s Syndrome as inherited genetic disorders	Glencoe Life Science Textbook pages: 137 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		
2 nd 9-weeks	CS 11 EC	7.11. B.2. Using a monohybrid Punnett Square to predict the probability of traits passed from parents to offspring	Glencoe Life Science Textbook pages: 131 Workbook pages: add in Internet resources Graphic organizers Study guides Extra time Peer tutor		