St. Johns County School District 2015-2016 School Year Course: 2002110

Advanced 8th Grade Science

Curriculum Map Terms & Use

Text: Pearson Interactive Science Course 3. Supplement with additional materials.

Quarter: Refers to the time period during which the standard(s) should be taught.

Unit/Organizing Strand: The overarching organizational structure used to group content and concepts within the map.

Florida Standards for Math & Literacy: Are to be incorporated into instruction, see notes in the map for suggestions. Best practice is to provide time for close reading and analytical writing, pushing student to evaluate/analyze information. For direct correlation of the standards to the standards within the map, visit: http://www.cpalms.org/

Essential Questions: Overarching question(s) that will serve to guide instruction & to push the student to higher levels of thinking (critical thinking). These questions should guide students to the heart of the content.

Benchmark: Refers to the benchmark classification system number: subject area, grade level, body of knowledge, big idea & benchmark are given in the benchmark. **Ex: SC.912.P.12.1**

Standard: The knowledge that the student is expected to acquired.

Key Terms: Students should demonstrate fluency in vocabulary that is intrinsic to the course.

Misconceptions: These are taken from NAEP and should be used to guide instruction, these are commonly held misconceptions at MS level.

Comments: These are district clarifications, to guide you on some of the vague standards.

Remarks: When given, these are DOE examples for a standard.

Resources & Activities: Are suggested. Teacher should proof the resources. Best practice is to provide inquiry and/or follow up labs or activities, non-fiction text and/or enrichment activities for foundational or important topics. **For resources on CPALMS, visit:** www.cpalms.org

Course# 2002110		Course: ADV 8 th grade Science	Quarter: 1	Pacing:		
Unit/Organizing Str	and: Florida Sta	l ndards for Reading in Science & Tech	nnical Subjects			
Essential Questions	S:					
Benchmarks	Standards				Resources	
LAFS.68.RST.1.1	Cite specific te	extual evidence to support analysis of	science and technical	texts.		
LAFS.68.RST.1.2		central ideas or conclusions of a text; wledge or opinions.	provide an accurate s	summary of the text distinct		
LAFS.68.RST.1.3		Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.				
LAFS.68.RST.2.4		Determine the meaning of symbols, key terms, & other domain-specific words & phrases as they're used in a specific scientific or technical context relevant to grades 6-8 texts & topics.				
LAFS.68.RST.2.5		Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole & to an understanding of the topic.				
LAFS.68.RST.2.6		Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.				
LAFS.68.RST.3.7		Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).				
LAFS.68.RST.3.8	Distinguish an	ong facts, reasoned judgment based	on research findings,	& speculation in a text.		
LAFS.68.RST.3.9		ntrast the information gained from exp		, video, or multimedia sources		
LAFS.68.RST.4.10		d from reading a text on the same top le 8, read & comprehend science texts & proficiently.		complexity band		

Course# 2002110	e# 2002110 Course: ADV 8 th grade Science Quar			r: 1 Pacing:			
Unit/Organizing Stra	cts						
Essential Questions:	1						
Benchmarks	Standards				Resources		
LAFS.68.WHST.1.1	a. Intro- from b. Supp demo c. Use claim d. Estal e. Prov	ents focused on discipline-specific co duce claim(s) about a topic or issue, a alternative or opposing claims, & orga oort claim(s) with logical reasoning & r onstrate an understanding of the topic words, phrases, & clauses to create c us(s), counterclaims, reasons, & evide olish & maintain a formal style. ide a concluding statement or section ented.	anize the reasons & e elevant, accurate dat or text, using credib ohesion & clarify the nce.	evidence logically. ta & evidence that le sources. relationships among			
LAFS.68.WHST.1.2		ative/explanatory texts, including the experiments, or technical processes.	narration of historical	events, scientific			
LAFS.68.WHST.2.4		Produce clear & coherent writing in which the development, organization, & style are appropriate to task, purpose, and audience.					
LAFS.68.WHST.2.5	needed by p	With some guidance and support from peers & adults, develop & strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how vell purpose & audience have been addressed.					
LAFS.68.WHST.2.6		ogy, including the Internet, to produce between information and ideas clear		and present the			

Course# 2002110		Course: ADV 8 th grade Science	Quarter: 1	Pacing:			
Unit/Organizing Strar	nd: Florida S	tandards for Writing in History, Scien	ice & Technical Subject	cts			
Essential Questions:							
Benchmarks	Standards				Resources		
LAFS.68.WHST.3.7	drawing on	ort research projects to answer a qu several sources & generating addition avenues of exploration.					
LAFS.68.WHST.3.8	effectively;	Gather relevant information from multiple print & digital sources, using search terms effectively; assess the credibility & accuracy of each source; & quote or paraphrase the data & conclusions of others while avoiding plagiarism & following a standard format for citation.					
LAFS.68.WHST.3.9	Draw evide	nce from informational texts to supp	ort analysis reflection,	and research.			
LAFS.68.WHST.4.10	frames (a s	Write routinely over extended time frames time for (reflection & revision) & shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, & audiences.					
ELD.K12.ELL.SI.1	•	English language learners communicate for social and instructional purposes within the school setting.					
ELD.K12.ELL.SC.1		guage learners communicate informatic success in the content area of Science		epts necessary for			

Course# 2002110	Course: ADV 8 th grade Science	Quarter: 1	Pacing:	
Unit/Organizing Strand: Fl	orida Standards for Speaking and Listening f	rom Language Arts S	tandards	
Essential Questions:				
Benchmarks	Standards			Resources
LAFS.8.SL.1.1	Engage effectively in a range of collaborat teacher-led) with diverse partners on grad others' ideas & expressing their own clear	e 7 topics, texts, & iss		
LAFS.8.SL.1.2	Analyze the purpose of information preservisually, quantitatively, orally) and evaluate political) behind its presentation.			
LAFS.8.SL.1.3	Delineate a speaker's argument & specific reasoning & the relevance & sufficiency of		e soundness of the	
LAFS.8.SL.2.4	Present claims & finds, emphasizing salies with pertinent descriptions, facts, details & adequate volume, & clear pronunciation.	•		
LAFS.8.SL.2.5	Include multimedia components & visual c findings & emphasize salient points.	lisplays in presentatic	ons to clarify claims &	

)	Course: ADV 8 th grade Science	Quarter: 1	Pacing:	
trand: Math St	I andards from the Florida Math Standar	ds: Functions		
ns:				
Standards	3			Resources
graph (e.g graph that Know the f	, where the function is increasing or de exhibits the qualitative features of a fur formulas for the volumes of cones, cylir	creasing, linear or non nction that has been de	linear). Sketch a escribed verbally.	
	·			
	ns: Standards Describe o graph (e.g graph that Know the f	trand: Math Standards from the Florida Math Standar ns: Standards Describe qualitatively the functional relationship b graph (e.g., where the function is increasing or de graph that exhibits the qualitative features of a fur	trand: Math Standards from the Florida Math Standards: Functions ns: Standards Describe qualitatively the functional relationship between two quantities graph (e.g., where the function is increasing or decreasing, linear or nor graph that exhibits the qualitative features of a function that has been de Know the formulas for the volumes of cones, cylinders, and spheres and	trand: Math Standards from the Florida Math Standards: Functions ns: Standards Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally. Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve

Course# 2002110	Course: ADV 8 th grade Science	Quarter: 1	Pacing:	
Unit/Organizing Strand: Na	ature of Science			
Essential Questions:				
Benchmarks	Standards			Resources
SC.8.N.1.1: FCAT Students will evaluate a scientific investigation using evidence of scientific thinking/problem solving. Students will identify test variables & outcome variables in a given investigation, they will analyze data to make predictions/defend conclusions.	Define a problem from the 8 th grade curriculum us scientific understanding, plan & carry out scientifi systematic observations or experiments, identify etc.), collect & organize data (qualitative & quanti graphics, analyze information, make predictions & Comment: Go over scientific processes (ob appropriate unit of measure, units & prefixes volume, grams, meter, density, cm, mL, etc.) but taught in q3 with gravity. Not necessary to teach : metric conversions another OR converting from metric to standa mode, significant figures, and percent error.	c investigations of vario variables (independent, tative), interpret data in & defend conclusions. serving, inferring, etc in beginning & throu Mass/weight should s (converting from 1 u	bus types, such as /manipulated, control, charts, tables & c.), metric tools/most ghout the year (ex.: be touched upon unit of metrics to	Media Resource: Bozemanscience.com: "Scientific Method". "Asking Questions & Designing Problems" "Planning & Carrying Out Investigations" "Obtaining, Evaluating & Communicating Information" (Higher level)
SC.8.N.1.2 Assessed as SC.7.N.1.2: students will differentiate between repetition & replication. SC.8.N.2.2 Not FCAT assessed SC.8.N.1.6 Assessed as SC.6.N.2.2 SC.8.N.1.6	Design & conduct a study using repeated trials & Discuss what characterizes science & its method Remarks: Science is the systematic, organized in experimentation that can be verified through testi Understand that scientific investigations involve to the use of logical reasoning, & the application of in predictions, explanations & models to make sense	s. (see SC.8.N.1.6 & S nquiry that is derived fro ng to explain natural ph he collection of relevan imagination in devising	om observations & nenomena. t empirical evidence, hypotheses,	Help to teach independent/dependent variables: D R Y MIX
SC.8.N.1.5 Assessed as SC.7.N.1.5	Analyze the methods used to develop a scientific science.	explanation as seen in	different fields of	
SC.8.N.1.3 Assessed as SC.8.N.1.1	Use phrases such as "results support" or "fail to s does not offer conclusive proof of a knowledge cl		erstanding that science	

Course# 2002110		Course: ADV 8 th grade Science	Quarter: 1	Pacing:			
Unit/Organizing Stra	nd: Matter		I	I			
Essential Questions	: What is matter-what	t makes it up? What are properties	of matter?				
Benchmarks	Standards				Resources		
SC.8.P.8.7 Assessed as SC.8.P.8.5	the smallest unit of ar nucleus containing pr Comment: Teach th	theory of atoms (also known as the a element & are composed of sub-ato otons & neutrons). e charges and locations of the suba ary to teach: isotopes.	omic particles (electrons	s surrounding a	Media Resources: Bozemanscience.co m: "Matter", "States of Matter", "Properties of		
SC.8.P.8.1 Assessed as SC.8.P.8.5		heory of atoms (also known as the a solids, liquids & gases.	atomic theory) by using	models to explain the	Matter", "The History of the Atom".		
SC.912.P.8.4	Explore the scientific theory of atoms (known as the atomic theory) by describing the structure of atoms in terms of protons, neutrons & electrons and differentiate among these particles in terms of their mass, electrical charge & locations within the atom.						
SC.8.N.3.2 Assessed as SC.7.N.3.1	Explain why theories	may be modified but are rarely disca	rded.		Simulations:		
SC.8.N.3.1 Not FCAT assessed.	Select models useful	http://phet.colorado.e					
SC.8.P.8.4 FCAT Also assesses SC.8.P.8. Items may require use of the density formula to calculate density, mass or volume when comparing substances. Items addressing solubility may include terms: solvent, solute, saturation.	demonstrated or mea properties, melting an the sample. Comment: Goal is for materials. Touch on s From FCAT specs: (teach use of the trian	substances on the basis of characters sured: for example: density, thermal d boiling points, and know that these or student to understand that basic pl olubility but you will go into detail wh tems require the use of the density f gle or circle to manipulate formula) ng point, density, volume and melting	or electrical conductivit properties are indepen hysical properties allow en teaching SC.8.P.8.9 formula to calculate der	ty, solubility, magnetic ndent of the amount of us to compare/classify (p.12). nsity, mass, or volume.	"Build an Atom " , "Density"		

Course# 2002110		Course: ADV 8 th grade Science	Quarter: 1	Pacing:			
Unit/Organizing Strand	: Matter						
Essential Questions:	How does matte	er change?					
Benchmarks	Standards	U			Resources		
SC.912.P.8.1		mong the 4 states of matter. ferentiate in terms of energy, particle	motion & phase tran	sitions.	Media Resource: Bozemanscience.com: "Physical & Chemical		
SC.8.P.8.3 Assessed as SC.8.P.8.4	Explore & des volumes.	Explore & describe the densities of various materials through measurement of their masses and volumes.					
SC.8.P.9.2 FCAT Also assesses SC.8.P.9.1 & SC.8.P.9.3 Students will differentiate between physical and chemical changes. Students will explain that mass is conserved when substances undergo physical and chemical changes, according to the law of conservation of mass. Students will describe how temperature influences chemical	Comment: Te	Differentiate between physical changes and chemical changes. Comment: Teach physical changes here, introduce chemical changes, which will be taught more fully in quarter 2. (p.12)					
changes. SC.8.P.8.2 Assessed as SC.6.P.13.1	pull on an obje	etween weight and mass recognizing ect & is distinct from, though proportic buch on this but it will be taught in mo	onal to, mass.	-			
SC.8.N.1.4 Assessed as SC.8.N.1.1		ypotheses are valuable if they lead to ported by the data	o further investigation	s, even if they turn out			
		END OF QUARTER 1					

Course# 2002110	Course: ADV 8 th grade Science	Quarter: 2	Pacing:	
Unit/Organizing Strand: Ma	ter			
Essential Questions:				
Benchmarks	Standards		Resources	
SC.8.P.8.6 Assessed as SC.8.P.8.5	Recognize that elements are grouped in the of their properties. Comment: Teach the areas & groups of and metalloids & that each group typically	the periodic table: me	tals, non-metals Bozemanscience.com	
SC.8.P.8.5 FCAT Also assesses SC.8.P.8.1, SC.8.P.8.6, SC.8.P.8.7, SC.8.P.8.8, SC.8.P.8.9 Studgeth utill describe here elements	valence electrons.		Table", "Tour of the Periodic Table".	5
Students will describe how elements combine in a multitude of ways to produce compounds that make up all living and nonliving things. Students will describe the motion of particles in solids, liquids, and/or gases. Students will explain that elements are grouped in the periodic table according to similarities of their properties. Students will explain that atoms are the smallest unit of an element and are composed of subatomic particles. Students will identify common examples of acids, bases, and/or salts. Students will compare, contrast, and/or classify the properties of compounds, including acids and bases. Students will differentiate among pure substances, mixtures, and solutions. Items will NOT assess chemical bonding. Items referring to subatomic	Recognize that there are a finite number of in a multitude of ways to produce compound nonliving things that we encounter. Remarks : Demonstrate with atomic model ways. Explain why there are many, but lim demonstrate the conservation of mass in the Comment: Students should understand the compound and understand that a metal and compounds, two non-metals form covaled be useful in assisting students in understand that students understand what a subscript	nds that make up all of Is how atoms can con- hited, combinations. U modeled chemical rea he difference between and non-metal combine t compounds. Lewis of and the mechanisms of <i>t is and what it infers.</i>	Mr. Edmonds Song: (You Tube) "Chemical Bonds Song", "The Periodic Table Song" "Groups and Periods Song"an element and e to form ionic dot structures may if bonding. Be sureSimulations: http://phet.colorado "Build an Atom"	al
particles will only assess protons, neutrons, electrons. SC.912.P.8.5	Relate properties of atoms & their position arrangement of their electrons. Remarks: Use the periodic table & electronelement's number of valence electrons & Explain how chemical properties depend a outer electron shell.	on configuration to det ts chemical & physica	ermine an al properties.	

Course# 2002110		Course: ADV 8 th grade Science	Quarter: 2	Pacing:	
Benchmarks	Standards	Resources			
SC.912.P.8.7	Remarks: V	mula representations of molecules & o Vrite chemical formulas for simple cov ionic compounds based on the numbe	alent, ionic & molecu	lar compounds. Predict	Mr. Edmonds Songs (You
SC.8.P.8.8 Assessed as SC.8.P.8.5	acids, bases Comment: compounds acids, bases	ic examples of and compare and clas s, and salts. Student should be able to recognize I & know properties of the compounds. s (acids are pH of 0-6 and are corrosive a product of a neutralization reaction	oasic examples of ior Students should un ve, etc.) Students sho	nic and covalently bonded derstand basic properties of	Tube): "Solutions". Activity: Write about the physical &
SC.912.P.8.11	Remarks: U	ty & basicity to hydronium & hydroxyl se data to illustrate/explain the pH sca ntrast strengths of various common ad	ale to characterize ac		chemical changes that occur when a wax candle burns. Explain how you
SC.8.P.8.9 Assessed as SC.8.P.8.5	Comment:	among mixtures (including solutions) a Refer back to standard SC.8.P.8.4 or Pure substances include elements & c	n page 9. Teach solv		decided how to classify each.
SC.8.P.9.2 FCAT		ous (mixtures) or homogeneous (solut	•		Media: Bozemanscience.
Also assesses SC.8.P.9.1 & SC.8.P.9.3 Students will differentiate between physical and chemical changes.	Differentiate Comment: changes & p	com: "Physical & Chemical Changes".			
SC.912.P.8.2	Remarks: D	between physical & chemical propert Discuss volume, density, conductivity, Describe simple lab techniques that	reactivity, molecular of	composition, freezing	
SC.8.P.9.3 Assessed as SC.8.P.9.2 Students will describe how temperature influences chemical changes. (SC.8.P.9.2)	heterogeneo	ous mixtures (filtration, distillation,etc, & describe how temperature influence)	J	
	END OF	QUARTER 2			

Course# 2002110		Course: ADV 8 th grade Science	Quarter: 3	Pacing:	
Unit/Organizing Stra	nd: Matter	I		I	
Benchmarks	Standards				Resources
SC.8.L.18.1 Assessed as SC.8.L.18.4.	and chlorophyll, Comment: Stu photosynthesis.	stigate the process of photosynthesis production of food, release of oxyger dents should be able to identify react Water and substances in the soil is	n. ants and products and t	-	Media: Bozemanscience. com: "Photosynthesis" "Cellular Respiration"
SC.912.L.18.7	Identify the read	tants, products and basic functions o	f photosynthesis.		Mr. Edmonds
SC.912.L.18.8	Identify the read	tants, products and basic functions o	f aerobic & anaerobic c	ellular respiration.	Songs (You Tube) "The Photosynthesis
SC.8.L.18.2 Assessed as SC.8.L.18.4. SC.912.L.18.9	 Describe & investigate how cellular respiration breaks down food to provide energy & releases carbon dioxide. Comment: Students need to understand that ALL living things—including plantsundergo cellular respiration. Students should be able to identify reactants and products in cellular respiration & see the interrelatedness of photosynthesis and cellular respiration. Connection: Students learned about mitochondria, cytoplasm in grade 6. FCAT review suggestion: Bring in plant cells and energy transformation when teaching these standards. Explain the interrelated nature of photosynthesis and cellular respiration. 				Song" www.nbclearn.c om: Chemistry Now: The Chemistry of Green: Chlorophyll Simulation- Photosynthesis http://www.johnky rk.com/photosynt

Course# 2002110		Course: ADV 8 th grade Science	Quarter: 3	Pacing:	
Unit/Organizing Strai	nd: Matter				
Benchmarks	Standards				Resources
Senchmarks SC.8.L.18.4 FCAT Also assesses SC.8.L.18.1, SC.8.L.18.2, SC.8.L.18.3. Students will explain that living systems obey the law of conservation of mass & law of conservation of energy. Students will describe and/or explain the general processes of photosynthesis or cellular respiration. SC.8.L.18.3 Assessed as SC.8.L.18.4. Students will describe how matter is transferred in the carbon cycle.	Cite evidence t Connection: L Construct a sci transferred with	hat living systems follow the Laws of C Law of Conservation of Energy is cover entific model of the carbon cycle to sho in & between organisms & their physic suggestion: Bring in ecological relatio	ed in grades 6/7. w how matter & energy al environments.	y are continuously	ResourcesMedia:Bozemanscience.com:"Photosynthesis"CellularRespiration"Mr. EdmondsSongs (YouTube) "ThePhotosynthesisSong"www.nbclearn.com:Chemistry Now:The Chemistryof Green:ChlorophyllSimulation-Photosynthesishttp://www.johnkyrk.com/photosynthesis.html

Course# 2002110	Course: ADV 8 th grade Science	Quarter: 3	Pacing:	
Unit/Organizing Strand: Ma	tter			
Essential Questions:				
Benchmarks	Standards			Resources
SC.8.E.5.1 Assessed as SC.8.E.5.3	Recognize that there are enormous distar knowledge of light & space travel to under Comment: Teach AU, light years and app you teach parallax.	stand this distance.		Writing: Are there galaxies other than the Milky Way that can be seen with the unaided eye? Explain and justify, citing facts.
SC.8.E.5.2 Assessed as SC.8.E.5.3 SC.8.E.5.3 FCAT Also assesses SC.8.E.5.1 & 5.2 Students will compare and/or contrast the relative distance, relative size, and general composition of astronomical bodies in the universe. Students will describe distances between objects in space in the context of light and space travel.	Recognize that the universe contains mar contains many billions of stars. Distinguish the hierarchical relationships to bodies relative to solar system, galaxy, ar	between planets & othe	er astronomical	What is the difference between the universe & the observable universe?
	composition. Comment : Be sure to compare bodies of universe.	the solar system to ea	ach other & the	Simulation: the scale of the universe http://htwins.net/scale2/ Media: www.nbclearn.com: Science Behind the News: Impacts on Jupiter
				Veritasium: Distance between Earth and Moon https://www.youtube.co m/watch?v=Bz9D6xba9 Og&list=PL16649CCE7 EFA8B2F&index=26

Course# 2002110	Course: ADV 8 th grade Science	Quarter: 3	Pacing:		
Unit/Organizing Strand: Mat	tter				
Essential Questions:					
Benchmarks	Standards		Resources		
SC.8.E.5.4 Assessed as SC.8.E.5.7	Explore the Law of Universal Gravitation b the formation of planets, stars, & the solar Connection: Students learned about grav	systems & in determini			
SC.8.P.8.2 Assessed as SC.6.P.13.1	Differentiate between weight and mass re- gravitational pull on an object & is distinct		al to, mass. Mr. Edmon (You Tube):	Mr. Edmonds Song (You Tube): "Mass vs.	
SC.8.E.5.5 FCAT Also assesses SC.8.E.5.6 Items addressing stars will focus on main sequence stars & their properties.	Describe & classify specific physical properties of stars: apparent magnitude (brightness), temperature (color), size, & luminosity (absolute brightness). Comment: Not necessary to teach stellar evolution or specific chemical composition of stars.				
SC.8.E.5.6 Assessed as SC.8.E.5.5. Students will evaluate models of solar properties	Create models of solar properties includin convection, sunspots, solar flares, and pro	•	he Sun,		
	END QUARTER 3				

Course# 2002110	Course: ADV 8 th grade Science	Quarter: 4	Pacing:	
Unit/Organizing Strand: The	Universe			
Essential Questions:				
Benchmarks	Standards		Resources	
SC.8.E.5.8 Assessed as SC.8.E.5.7 SC.8.E.5.7 FCAT Also assesses SC.8.E.5.4 & SC.8.E.5.8 Items will not assess relative distance of objects in Solar System from the Sun. Items will not assess the chemical composition of the atmospheres.	Compare various historical models of the heliocentric. Compare & contrast the properties of objective Sun, planets, and moons to those of Earth from the Sun, speed, movement, temperative statement and the Sun, speed, movement, temperative statement and the statement and the statement and the statement statement and the statement statement and the statement stateme	cts in the Solar Syste	em including the al force, distance	t and
SC.8.E.5.9 FCAT Students will explain the effect of astronomical bodies on each other, including the Sun's and/or the Moon's effects on Earth.	Explain the impact of objects in space on each other including: the Sun on the Earth including seasons & gravitational attraction and the Moon on the Earth, including phases, tides, and eclipses, and the relative position of each body.		the Sun on the on the Earth,Media: http://science.discover	
SC.912.E.5.4	Explain the physical properties of the Sun them to conditions & events on the Earth. Remarks: Describe physical properties of prominences, layers of the Sun,etc.) and t source of external energy for the Earth.	f the sun (sunspot cy	cles, solar flares, Astro/GeoAstro.htm	Geo

Course# 2002110	Course: ADV 8 th grade Science	Quarter: 4	Pacing:
Unit/Organizing Strand:	Matter		
Essential Questions:			
Benchmarks	Standards		Resources
SC.8.E.5.10 Assessed as SC.7.N.1.5 SC.8.E.5.11 Assessed as SC.7.P.10.1 SC.8.N.2.1 Not assessed on FCAT.	Assess how technology is essential to sci space & other remote locations, sample of storage, computation, communication of i Identify and compare characteristics of th wavelength, frequency, use, & hazards & understanding of planetary images & sate Connections: Students learned about wa electromagnetic spectrum (infrared, UV lig Distinguish between scientific and pseudo Remarks: Science is testable, pseudo-sc (e.g. astrology is pseudoscience).	ollection, measurement nformation. e electromagnetic spec recognize its applicatio ellite photographs. ave properties & various ght, etc.) in 7 th grade.	s as access to outer t, data collection & trum such as in to an s parts of the Writing: Write a paragraph arguing for or against the advancement of technology, using at least 3 examples that

Course# 2002110	Course: ADV 8 th grade Science	Quarter: 4	Pacing:
Unit/Organizing Strand:			
Essential Questions:			
Benchmarks	Standards		Resources
SC.8.E.5.12 Not FCAT assessed. SC.8.N.4.1	Summarize the effects of space exploration		http://bigthink.com Bill Nye: "Why We
Not FCAT assessed.	Explain that science is one of the process making at the community, state, national Explain how political, social & economic of	& international levels.	
SC.8.N.4.2 Not FCAT assessed.			
	END SEMESTER 2		