Subject: Science

## Greeneville City Schools Curriculum Map

Grade Level:

Strands	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау
Science Inquiry		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u>+ + + + + + + + + + + + + + + + + + + </u>			<u></u>
Life Science	Environm *Biomes-Differ *Ecosyste *Human Action/ Natural Ph and Effects on the o (*1) (BM 5.5.2) Det adaptations help c survive in their en Plants *Classify w/ Characterist *Adaptations *Food Producti on *Plant Parts-Structure an (*2) (BM 5.3.2, Recognize specific structures in org them to obtain and use en 2.B.3, 3.B.3, 4.B.3 Biological C *Fossils-Evidenc 4.B.3 <u>Cell Struc</u> *Plant and Animal-Cor Draw/Label Cell *Differentiate among ce systems 2.B.3	tent ent types ems henomena-Consequences environment cermine that organisms to nvironments) cics *Reproduction *Life Cycle df Function e the function of janisms that allow ergy. hange ce of Past ture mpare/Contrast Structure lls, tissues, organs, s								

Earth/Space Science		Earth and the Universe * <u>Characteristics of Planets-</u> <u>Compare/Contrast</u> *Man-made Satellites * <u>Moon Phases</u> * <u>Rotation vs. Revolution</u> *Stars, Meteoroids, Comets, and Asteroids <u>5B3</u> *Science I nquiry Questions the work of Galeio & early astronomers Reviewing the work of early rocket scientist, particulaily those American scientists, including Robert Goddard, and German scientist, Von Braun	Atmosphe *Analyze Data of Atr (Air Pressure, Temp., *Effects of Landr and C * <u>Components and F</u> <u>Cy</u> *Temperatures Af Condensation, a 6B3	eric Cycles mospheric Conditions , Wind Speed, Precip.) forms on Weather limate Processes of Water icle Ffects Evaporation, and Precipitation			Earth Feat *Forces Changing Geo (ie wind, water, pla *Layers of the E *Cave Formations ar to Plate Teo 7.B3—8B3	tures logical Features te tectonics) arth-Model nd Relationship ctonics
Physical Science			Matter *Law of Conservation *Label Atom *Label Atom *Atoms in Constant Motion *Evaporation and Condensation-Temp. Change *Different rates of Freeze, Melt, Evaporate for Different Types of Matter *Conditions Associated with Chemical Change Chemical vs. Physical Change 10.B3 *Science I nquiry Using pipets, balances, graduate cylinders for accurate measurement in chemical experiments. Use units of ml, gram and centimeter in writing of lab experiments, utilizing scientific method lab reporting sheets. Draw pictures or illustrations representing experiments and data collection procedures Utilize collected numerical data to draw conclusions		Forces and Motion           *Gravity's Effect on Earth's Objects           *Relationship of Mass, Force and Distance Traveled           *Slope Affect on Amount of Force           *Simple Machines: Energy,           Productivity, Alter Force, Use of           *Scientific Meaning of Work           *Friction and Motion           9B3           *Science I nquiry           Exploring Thomas Edison's           Experiments           Work with spring scales to measure force and effort.           Write directions for completing a device utilizing lego blocks as building materials. Draw pictures of completed machines and illustrate how they employ simple machines.		Energy *Energy Changing Forms Alternative Energy Uses and Conservation Best Practices. Current Energy Practices and Potential Affects of Continued Use of Non-renewable Energy Resources. *Potential vs. Kinetic Energy *Lenses Affect on Beams of Light *Construct/Explain Parallel Circuit *Series vs. Parallel Circuit *Use of Electrical Circuit *Explore/Describe Use of Magnets *Demonstrate/Describe Magnetic Field 11B3	
Personal/Social Perspectives							* <u>Parts and Function of</u> <u>Nervous System</u> * <u>Parts of Function of</u> <u>Endocrine System</u> *Human's Specialized System	

									*Family Life Strand (Health Dept.)	
									Education	
Science & Technology										
Related Literature	<u>*Video I nstruction:</u> <u>EyeWitness, Desert,</u> <u>Ocean, Jungle.</u> <u>Windows on Science:</u> <u>Vol. 1, Know Your Niche,</u> <u>Biomes, Ecosystems</u>						To Space and Back			
Field Studies	Scientific process Recycling (all year)	Great Smoky Mountain National Park	Bays Mt. Planetariu Telescope viewing a Bay's Mountain	<u>im</u> at school and at			Huntsville Space Center for Astrotrek Space Camp Field trip to ETSU Powell Observatory To view planets and moon in winter months	Arbor Day Health Dept Puberty Science Fair in school and local exhibit	Landfill, Recycling Center, Water Treatment Plant, Waste Treatment Plant Earth Day (Science Fair participation at ETSU)	Cedar Creek Leaning Center – 1 week
Technology	Windows on Science (all year) Overhead projector VCR DVD Computer I nternet Computer Power Point	Windows on Science (laser disk) Microscopes Flex Cam DVD Overhead Projector VCR/TV	Windows on Scienc Telescope Overhead projector	e (Laser Disk) r	Windows on Scienc Triple Beam Balance Graduate Cylinders Magnetic Stirrers Chemical titration a	e e pparatus	Windows on Science Telescopes DVD VCR/TV Overhead Projector	Windows on Science DVD VCR/TV	Windows on Science DVD VCR/TV	Windows on Science DVD VCR/TV

	Student profiles of	Time lines in tree	Constellation can	Analysis for Vitamin C with starch	Internet	Calculation of	Turning newspaper into	Stalagmites and
	individually assigned growth rings Planeta		Planetariums	solutions (color change indicators of	investigations of	work in joules on	cardboard.	stalactites
	major biome Power			chemical reactions)	INS activities	multiple surfaces.		formation.
	Point from internet	Microscope	Internet research -		and locations.		Wind and solar energy	
	investigations.	investigations of	Constellation	Acid/Base Indicators with Color		Calculation of	as alternatives.	Soil conservation
	presentations	stoma.	Color and composition	Change from Cabbage juice indicators	Research Space	mechanical		practices.
	Time lines in tree			and relation of interpreting data	Satellites and	advantage with	Writing summaries on	
	growth rings Write a	Leaf collections	Directions with compasses. (N, S, E,	collected about the survey of	Probes, currently	simple machines	Saving the Sun's Heat	Write about the
	description of the Rain		W)	acids/bases as chemicals in each	occurring and		(see pg 106 of SRA	process of
	Forest Biome. * (see pg	Tardigrade	Completion of compass course	students home.	past astronomical	Mechanical	Skills Handbook.)	obtaining clean
	110 of SRA Using	microscope			investigations.	advantage of		water and sewage
	Science Skills	investigations.	Making constellation finders	Phenolphthalein titration's of		Class 1, 2, & 3		treatment
	Handbook)		Write and outline and paper on the	acid/base solutions to normal (ph7)	Construction of	Levers		process.(see page
	Learning Logs, pg 96		Astronomy of Ancient Peoples(see pg		class rockets for			120 of SRA Skills
Assessment	(same as above *)		102, SRA Skills Handbook) Organized	Periodic Table Evaluation of the	firing and viewing			Handbook.)
Assessment	Write a compare &		with organized with a Bubble thinking	Elements	of school			Write about
	contrast paper, using		map for adjectives. Investigate	Family Characteristics	population.			"Solution to
	double bubble Thinking		different calendars, Roman, Mayan,	Electron Shell Drawing				Pollution" as
	Map or Venn		Egyptian, Chinese, Muslim, Hindu, etc.					presented in SRA
	diagram(see pg 21,			States of matter (solid, liquid, gas)				Skills Handbook,
	Practicing Skill 11			Write about polyvinyl alcohol				pg 124.
	Workbook for Venn			experiment and slime resulting from				
	Diagram)			this experiment.				
				Gas characteristics (non-flammable,				
				flammable, explosive)				