

Subject: Science		Greenville City Schools Curriculum Map							Grade Level: 4	
Strands	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Science Inquiry	*Demonstrate uses of scientific instruments including microscopes, balances, and other experimentation apparatus							* (Math) metric units-length, area, volume *Mass/weight/density		
Life Science	<p><b>(2) <u>Plant and animal cells</u></b>  <b>(3) <u>plant cell structure and function</u></b>  <b>(2) <u>Classifying organisms</u></b>            *Reasons organisms can become extinct  <b>(2) <u>Ecosystems</u></b>  <b>(1) match a plant or animal adaptation to a particular environmental condition</b>            *Producers, consumers, and decomposers            *<u>Path of energy in food chains and food webs</u>  <b>(3) <u>Environmental changes caused by living things</u></b></p>	<p><b>(1) <u>Plant parts and functions</u></b>            *Plant growth and reproduction (pollination, fertilization)  <b>(1) <u>Compare traits of offspring with parents</u></b>  <b>(3) <u>Match the form of structure found in living things to its function</u></b></p>	<p>*Animal characteristics            *Vertebrates and invertebrates  <b>(2) <u>Thriving, threatened, endangered, extinct</u></b>  <b>(3) <u>Infer possible causes of extinction</u></b>  <b>(3) <u>recognize the relationship between reproduction and the survival of a species</u></b>  <b>(3) <u>How specific animals obtain oxygen( gills, lungs)</u></b>  <b>(2) <u>compare how various animals obtain and use food for</u></b></p>							

			<p><b>energy</b></p> <p><b>(2)Classifying animals</b></p> <p>*Organ systems in animals</p> <p><b>(3)Life cycle of a <a href="#">frog</a> and a <a href="#">mealworm</a></b></p> <p>*Animal survival-camouflage, adaptations</p> <p>* Inherited and learned behaviors</p>							
Earth/Space Science				<p>*Physical properties of rocks</p> <p>*Identify minerals</p> <p>*Igneous and sedimentary rocks</p> <p><b>(1)Match fossil evidence to organisms that are alive today</b></p>	<p>*Wind and water changing the earth</p> <p><b>(2)Components of soil</b></p> <p><b>(3)<a href="#">Layers of the earth</a></b></p> <p><b>(1)classify earth materials according to their use</b></p> <p><b>(3)Identify renewable and non-renewable resources</b></p>	<p>*Demonstrate how earth rotates and revolves</p> <p><b>(2)Simulate changing shape of the moon</b></p> <p>*Gravity in nature</p> <p><b>(1)<a href="#">Order of planets</a></b></p> <p><b>(3)<a href="#">Shadow/position of the sun</a></b></p> <p>*<a href="#">Water cycle</a></p> <p><b>(2)Describe how wind and water change the earth's geological features</b></p> <p><b>(1)Recognize specific geological features</b></p> <p>*Tidal power</p>	<p><b>(2)Tools to measure atmospheric conditions (barometer, thermometer, anemometer, rain gauge)</b></p> <p><b>(3)How oceans affect weather and climate</b></p> <p><b>(1)<a href="#">Identify cloud types associated with specific weather conditions</a></b></p>			
Physical Science								<p><b>(1)Describe matter by observable physical properties</b></p> <p><b>(2)<a href="#">identify the states of matter</a></b></p> <p><b>(1)<a href="#">identify conditions associated with a physical change</a></b></p> <p><b>(2)Describe how</b></p>	<p><b>(1)Identify different forms of energy</b></p> <p>*Heat sources</p> <p><b>(2)<a href="#">recognize that various materials conduct heat</a></b> (conduction, convection,</p>	

								<p><b>gravity operates in nature</b>  *(Math) metric units-length, area, volume  *Mass/weight/density  <b>(3)Describe how various types of matter change states</b>  *Identify conditions associated with a physical change  *Chemical changes  <b>(2)identify characteristics of different types of mixtures</b>  <b>(3)Determine methods of separating mixtures</b>  <b>(2)Simple machines</b>  *Friction  <b>(3)Explain how speed affects the distance traveled</b>  <b>(1)select factors that have the greatest effect on the motion of an object</b></p>	<p><b>and radiation)</b>  *insulators are heat barriers  *Light-how light travels, light is a mixture, reflection, refraction  <b>(2)Differentiate b/w volume and pitch</b>  *Sound-how sound travels  *electricity-simple circuit  <b>(3)demonstrate the movement of electrons along a path in a simple circuit</b></p>	
<b>Personal/Social Perspectives</b>										Label the human body <a href="#">circulatory</a> and <a href="#">respiratory</a> systems and discuss their interactions
<b>Science &amp; Technology</b>	Research on the internet							Library-graphs on Excel		→
<b>Related Literature</b>	<a href="#">Pig Newton Pops Up</a> What Good is a	<a href="#">The Perfect Garden</a> Dulcie	<a href="#">Ants on the Move</a> The Bua	<a href="#">Rocks Just Don't Sit There</a>	<a href="#">How Mountains are Made</a> Do vou Feel	<a href="#">The Moon Cheese Keeper Of the Night</a> Jenny in Space	<a href="#">Everyone Always Complains</a>	<a href="#">Big and Small Greetings from Nowheresville</a>	<a href="#">Maddie in the Middle</a> Lou Gehrig	<a href="#">The Magic School Bus</a> Inside the

	<u>Forest Fire</u>	<u>Collection Matt's Garden</u>	<u>Watch Falcon Watch The Polar Bear and the Jaguar Penguins:Birds that Swim Into the Sea Animals in the City Horned Lizards The Swimming Hole Riki Tiki Tavi</u>		<u>Earth Moving? Laura and the Great Quake</u>	<u>Space Probes to the Planets The water-Watchers How the Ocean Tides Came to Be Lobstering</u>	<u>About the Weather Half Chicken Storm Chasers</u>	<u>The Angel Food Cake Disaster A Chemist in the Kitchen</u>	<u>One Good Swing Tio Victor's Big Hit How the Lever Changed the World Thomas Edison-An American Inventor Ella Fitzgerald Saxophone Surprise Magnets Everywhere</u>	<u>Human Body</u>
<b>Field Studies</b>			Cherokee Trip Mr.Wankel- Whales and Sharks							Camp Explore
<b>Technology</b>	Mindjogger	Mindjogger	Mindjogger	Mindjogger	Mindjogger	Mindjogger Planetarium	Mindjogger	Mindjogger	Mindjogger	Mindjogger
<b>Assessment</b>	Mindjogger Teacher Observation Class work Chapter Assessment	Mindjogger Teacher Observation Class work Chapter Assessment	Mindjogger Can animal project Chapter assessment Teacher Observation Class work	Mindjogger Teacher Observation Class work Chapter Assessment	Mindjogger Teacher Observation Class work Chapter Assessment	Mindjogger Teacher Observation Class work Chapter Assessment	Mindjogger Teacher Observation Class work Chapter Assessment	Mindjogger Lego Project Teacher Observation Class work Chapter Assessment	Mindjogger Teacher Observation Class work Chapter Assessment	Mindjogger Teacher Observation Class work Chapter Assessment