

SLIB 560 – Jenny Boyd -- Curriculum Chart

	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade
Scientific Investigation Reasoning	5 Senses	senses physical properties	length, volume, mass, and temperature and time	length, volume, mass, and temperature and time	conducting investigations	conducting investigations
Force, Motion, Energy	Magnetism	Motion & movement sound	magnetism	simple machines compound machines	friction electricity	sound visible light
Matter	Colors, shapes, forms, textures, feel of objects, sizes, weights Water sink/float	Materials interact with water separate, dissolve in water, some more readily in hot water than in cold water	basic properties of solids, liquids, and gases; measurement of the mass and volume of solids and liquids	physical properties of matter		Atoms, molecules, mixtures
Life Processes	Living & nonliving	Plants and animals have basic life	Animal life cycles Plant life cycles	Animals - behavioral & physical adaptations	plant anatomy	
Living Systems	Shadows		animal's habitat interdependence	aquatic and terrestrial	ecosystem interact habitats and niches	basic cell structures and functions
Earth/Space Systems	repeating patterns	sun	basic weather	Soil	weather conditions meteorological tools	ocean environment geological characteristics
Earth Patterns & Cycles	change occurs over time	weather and seasonal changes	weathering and erosion of land	patterns & cycles water cycle	solar system planets	Rock types, rock cycle
Earth Resources	Materials may be reused, recycled, and conserved.	natural resources are limited identification of natural resources	plants provide oxygen, homes, and food for many animals and can help reduce erosion	human influences interdependency renewable & nonrenewable	Virginia natural resources	
History	Powhatan, Pocahontas, George Washington, Betsy Ross, Abraham Lincoln; Thanksgiving Day; Martin Luther King, Jr., Day; Presidents' Day; Independence Day	Timelines George Washington, Benjamin Franklin, Abraham Lincoln, George Washington Carver, Eleanor Roosevelt Presidents' Day, Columbus Day, Independence Day	Ancient China and Egypt American Indian cultures Powhatan - Eastern Woodlands Lakota Sioux - Plains Pueblo - Southwest	Ancient Greece, Rome, & Mali Christopher Columbus Juan Ponce de León Jacques Cartier Christopher Newport	Virginia Studies Skills	
Geography	Maps & Globes positional words	cardinal directions, shapes of the United States and Virginia locating Washington, D.C, Richmond	map skills equator, 7 continents, 5 oceans rivers mountain ranges, Great Lakes	map skills prime meridian to identify Hemispheres letter-number grid system	Colonization and Conflict: 1607 through the American Revolution	
Economics	Work Making choices	goods and services consumers and producers make choices, save money	resources natural, human, capital, barter, use of money scarcity	resources, specialize, economic choice, opportunity cost	Political Growth and Western Expansion: 1781 to the Mid 1800s	
Civics	good citizen American flag Pledge of Allegiance President leader of the US	good citizen, symbols communities in Virginia diverse ethnic origins, customs, and traditions	good citizen, voting George Washington Abraham Lincoln Susan B. Anthony Helen Keller Jackie Robinson Martin Luther King, Jr.	rules and laws, government, equality Thomas Jefferson; Rosa Parks; Thurgood Marshall; Cesar Chavez, Veterans Day and Memorial Day diversity	Civil War and Postwar Eras Virginia: 1900 to the Present The Physical Geography and Native Peoples	
Number and Number Sense	counting numbers money sets count forward/backward	counting to 100 count by 2, 5, 10 fractions: 1/2, 1/3, 1/4	3 digit number round 2 digit nearest 10, odd & even compare numbers 0 to 999 ordinals, fractions: 1/2, 1/3, 1/4, 1/6, 1/8, 1/10	6 digit number round 4 digit nearest 10, 100, 1000 compare numbers 0 to 9,999 fractions & mixed numbers	number to millions compare # to millions decimals to thousandths model decimals & fractions	decimals to thousandths, round to nearest whole, 10 th or 100 th compare fractions & decimals prime & composite numbers

Computation and Estimation	add & subtract 10	order numbers addition and subtract to 18	addition and subtract to 99 estimate inverse relationship of +/-	multistep problems multiplication tables 0-12 area, set, number line models add & subtract fractions	multi step problems add, subtract, multiply, divide whole numbers least common multiple, greatest common factor	multistep problems +,-,x, ÷ of 2 numbers expressed as decimals through thousandths order of operations
Measurement	basic measurement time to the hour	money equivalents value of change to 1.00 or less time to the ½ hour nonstandard measurement more/less	money to \$2.00 length to centimeter, inch time to nearest 5 minutes past & present dates on a calendar	money to \$5.00 length to ½ in, in, ft, yd, cm, m perimeter & area, temperature time to nearest minute equivalent times	weight/mass, length, volume, US customary & metric	perimeter, area, and volume equivalents, diameter, radius, chord, circumference elapsed time
Geometry	plane figures: circle, triangle, square, and rectangle compare size	identify & trace plane figures: triangle, rectangle, square, circle identify shapes	draw line of symmetry plane/solids: circle/sphere, square/cube, and rectangle/rectangular prism	of points, line segments, rays, angles, and lines congruent & noncongruent solid & plane figures	illustrate intersection, parallelism, perpendicularity flips, turns, slide polygon to 10 sides	types of angles & triangles square, rectangle, triangle, parallelogram, rhombus, and trapezoid
Probability and Statistics	counting & tallies picture graphs	use basic data (lunch count) vocab: ewer, more, less,>,<>=	picture graphs, pictographs, and bar graphs predict outcomes read data	line plot, a picture graph, or a bar graph probability & chance	predict likelihood of event probability as 1-10	mean, median, mode range
Patterns, Functions, and Algebra	sort & classify patterns	classify by color, size, shape, thickness patterns equal	patterns symbol = symbol ≠	identity and commutative properties for addition and multiplication	recognize, create, and extend numerical and geometric patterns associative property for addition and multiplication	variable open sentences distributive property of multiplication over addition.
Oral Language	vocabulary conversations rhyme syllables	choral speaking, poems & songs singular & plural nouns ask & answer questions	oral stories past present verbs synonyms & antonyms multistep directions	oral reports answer questions	conservations seek opinions of others correct grammar usage organized information	discussions across content areas work independently collaborate with diverse teams
Reading	front cover, back cover, and title page left to right, top to bottom alphabet illustrations fiction & nonfiction	ending punctuation decoding words sight words titles & pictures set purpose for reading predictions main idea	multisyllabic words sentence structure & sequence homophones prefixes & suffixes characters, events, problem & solution beginning, middle, end	glossary, dictionary, and thesaurus roots, affixes, synonyms, and antonyms drawing conclusions make confirm and revise predictions	context clues author's purpose cause and effect relationships strategies to monitor comprehension fluency and accuracy	figurative language word meanings across content areas free verse, rhymed, and patterned poetry resolution of conflict Skim materials
Writing	manuscript upper & lowercase describe pictures technology	form letters focus on an idea sight words technology	legible printing to cursive brainstorm to organize writing possessives pronoun I technology	cursive write a paragraph on topic details on the main idea transition words identify resources & technology	pre-writing strategies two or more related paragraphs supporting details that elaborate main idea Research & plagiarism	multiparagraph composition precise and descriptive vocabulary Identify fragments and run-ons Research & plagiarism
Physical Education	gross motor skills good listening cooperative and safe general and personal space	locomotor, non-locomotor, and manipulative skills Work cooperatively	skilled movement spatial awareness Responsible Behaviors Active Lifestyle	skilled movement rules, procedures, etiquette physically fit, active lifestyle	moving to a rhythm feedback improve performance common group goal	basic small-group offensive & defensive tactics and strategies data collection (pedometers, heart rate monitors)
Fine Arts	produce art identify: color, line, shape, texture, pattern who is an artist	produce and describe art art in culture point of view in what art is and what purposes	distinguish between objects that occur naturally and objects made by people	identify common attributes of works of art portrait, landscape, still life, and narrative works of art	create the illusion of depth difference between art and non-art objects	contour drawing and shading techniques; ceramic work of art explain preferences for works of art
Music	sing & play to demonstrate: high/low, fast/slow, loud/soft, 2 pitch rhythmic patterns, steady beat, patriotic and seasonal songs analyze music	3 pitch, matching pitch, line and circle dances History and Cultural Context	read and notate music create music music vocabulary	play music in two-part ensembles; play melodies written on the treble staff sixteenth notes, single eighth notes, eighth rests, and dotted half notes analyze music	hexatonic scale, time signatures, identifying dynamic markings (<i>p</i> , <i>mp</i> , <i>mf</i> , <i>f</i>) evaluate and critique music	read and notate music, treble (G) and bass (F) clefs, compound time signatures ensemble singing, syncopations, roles of music and musicians in society

When creating this chart, I used the Standards of Learning for Virginia Public schools, found at <http://www.doe.virginia.gov/testing/index.shtml>. I also used the pacing guides produced by the grade level teams at my current school. I received insight from cohort members and teachers in my school. The greatest challenge was getting them to understand what I was doing and the importance of a curriculum chart. The new librarian was extremely encouraging, but not extremely helpful. My teammates were the most supportive and I found the third grade section to be more flushed out in the first draft. I had to go back and remove the extra details from third and add to other areas like PE, Art and Music. The skills in these areas travelled across the grade levels, so instead of including them again and again, I just pulled the most important new objectives.

To be honest, the greatest challenge was finding the balance from what I wanted to create, a spread sheet with bulleted topics, and fulfil the assignment and use only 2 pages. I found the peer review time during class to be extremely frustrating. There were just too many people in the elementary group and I felt like I was clamoring for attention. I would have had to interrupt others to gain their opinions. So I wound up looking at others pages, but got little feedback during that session.

The most significant thing I learned through the process was the confirmation of the spiral curriculum in elementary school. I was also rather surprised to find no social studies objectives in the fifth grade. As a former History major, this is depressing. Students should always have some history to learn, in my opinion.

I would think this experience and project will be a valuable tool for a librarian, especially a new librarian. Staring as classroom teachers, we are well versed in classroom SOL objectives. But too often we look at them just as a grade level, not as spiral education. In the library we will get the opportunity to assist in student learning and utilize the spiral planning.