

Seventh Grade Science Curriculum Map

Quarter	Month	Content	Skills	State Standards	Assessments	Math Integration
1	September					
		Intro to Life Science Unit 1 Chapter 1	*Intro to Latin prefixes and suffixes - branches *Scientific Method *Experiments with control and variable *Scientific Measurements - tools, units of measurement, and what is measured	13A3a-f	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Test	Students will learn how to solve problems by using the step by step procedures involved in the Scientific Method Metric units; Scientific notation 6.7.01;6.7.25; 7.7.12

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October					
	Needs of Living Things Unit 2 Chapter 2	*Growth *Responsiveness/Stimulus *Metabolism/Ingestion/Digestion/Respiration/Excretion *Reproduction - Sexual Vs. Asexual/Spontaneous Generation *Needs - food, water, environment	12A 3a 12B3a-b	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Test *Review Sheets *Study Guide *Quarter 1 Assessment Test	Growth will include: rounding; compare and order 6.7.02 Metric units will be used to measure 7.7.12; and students will predict outcomes 10..7.02
2	Cells Unit 4 Chapter 3	*Definition *Cell Theory (Robert Hooke) *Simple Model *Animal vs. Plant *Cell Organization *Cell Processes *Mitosis *Metabolism - diffusion and osmosis	12A3a	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Test	Students will view 3 dimensional model of the cell; 9.7.02students will use metric measurements to determine size of a cell7.712

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	November					
		Classification Unit 5 Chapter 4	*Taxonomy *Classification Groups *Scientific Names *Five Kingdoms	12A3a-c 13B3b-c	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Test	Students will recognize independent and dependent events 10.7.09
		Microscopy Unit 1, p. 26-29 Chapter 1, p.25	*Definition *Uses *Name the parts *Function of parts *Practical Application	13A3a-b	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Test	Students will recognize independent and dependent events 10.7.09; Magnification (8.710)

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	December					
2		Simple Organisms Unit 6 Chapters 5, 6, 7	*Monerans (bacteria) *Protists (ameoba, paramecium, flagellate) *Fungi	12A3b-c 12B3a-b 13A3a-b 13B3b	*Worksheets *Notebook *Lab Work*Quizzes *Chapter Tests *Review Sheets *Study Guide *Quarter 2 Assessment Test	Students can use the skills of estimating (6.7.24) in fractions, proportions and percentages to chart the numbers and types of simple celled organisms. 6.7.03; 6.7.03; 6.7.07

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	January					
3		Plants Unit 7, 8 Chapters 8, 9	*Simple vs. Complex *Seed Bearing or not	12A3a-b 13A3b 13B3b-c	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	Students will graph by using ratios of various seed bearing trees vs. not seed bearing (10.7.03); students will also use ratio to plot plant growth(6.7.07)

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	February					
		Invertebrates Unit 9 Chapters 10,11	*Porifera *Cnideria *Worms *Mollusks *Arthropods *Echinoderms	12A3a-c 12B3a-b		Students will add, subtract, multiply, divide integers when comparing populations(6.7.17) Students will also use percents (6.7.11), proportions (6..7.03) and scale drawing (7.7.11) St

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	March					
4		Vertebrates Unit 10 Chapters 12, 13, 14	*Fish *Amphibians *Reptiles *Birds *Mammals	12A3a-c 12B3a-b 13A3a-b	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	Students will use scale to draw 7.7.11; Students will also be able to measure by using the metric system which would include proportions(6.7.03)

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	April					
4		Vertebrates Unit 10 Chapter 12, 13, 14	*Fish *Amphibians *Reptiles *Birds *Mammals	12A3a-c 12B3a-b 13A3a-b	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	Students can estimate(6.7.24) populations using both percentages and proportions(6.70.3 and 6.7.11)

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	Month	Content	Skills	State Standards	Assessments	Math Integration
	May					
		Heredity and Genetics Unit 18 Chapters 23, 24, 25	*Heredity *Chromosomes *DNA *Cloning *Punnett Square	12A3b-c 13A3a-b 13B3a-f	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	Student will use the skill of probability (10.7.08) and will also investigate the future (10.7.10) Students will also recognize basic geometric figures.
		Change over Time Unit 19 Chapter 26	*Evolution *Charles Darwin	12B3a 13B3a-f	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests *Review Sheets *Study Guide *Quarter 4 Assessment Test	