### Worth County Middle School 7th Grade Science - Life Science Curriculum Map

	Cells and The Human Body 1st Nine Weeks	Heredity, Evolution, and Classification  2nd Nine Weeks	Ecology 3rd Nine Weeks	Review 4th Nine Weeks
	FIF	RST SEMESTER	SECOND SE	MESTER
GSE	Unit 1: <b>\$7L2 a, b</b> Unit 2: <b>\$7L2 b,c</b>	Unit 3: <b>\$7L3 a, b, c</b> Unit 4: <b>\$7L5 a, b, c</b> Unit 5: <b>\$7L1 a, b</b>	\$7L4 a, b, c, d	All Standards
Performance Tasks	<ul> <li>Cell model projects and cell process diagrams</li> <li>Unit 2</li> <li>Organ system slide show and scenarios</li> </ul>	<ul> <li>Unit 3</li> <li>Punnett squares</li> <li>Asexual/sexual six kingdom graphic organizer</li> <li>Why do I look like me? project</li> <li>Unit 4</li> <li>Stages of natural selection visual</li> <li>Unit 5</li> <li>Dichotomous key activity</li> <li>Six kingdoms brochure</li> </ul>	<ul> <li>Climatographs</li> <li>Biome research project</li> <li>Biorama</li> </ul>	<ul> <li>ABC Book of Science Terms/slide presentation</li> <li>Frog dissection</li> </ul>
Core Ideas	<ul> <li>cell structures</li> <li>functions of cells (growth, reproduction, production, process waste)</li> <li>cells, tissues, organs, and organ systems</li> <li>basic needs of organisms</li> </ul> The Human Body - Unit 2 <ul> <li>systems of the body - how</li> </ul>	<ul> <li>Inheritance of traits</li> <li>genes and chromosomes</li> <li>sexual and asexual reproduction</li> <li>variation of traits</li> <li>selective breeding (artificial selection)</li> </ul> Evolution - Unit 4 <ul> <li>theory of evolution of living organisms</li> <li>natural selection - changes in specific traits</li> <li>genetic variation and environmental factors - impact on survival and reproduction</li> <li>fossil record</li> </ul> Classification - Unit 5 <ul> <li>categorization of organisms based on common characteristics</li> <li>six kingdom system</li> </ul>	<ul> <li>Patterns of interactions in ecosystems - such as predator-prey relationships, competition, mutualism, and commensalism</li> <li>cycling of matter and flow of energy</li> <li>Impact of resource availability, disease, climate, and human activity on organisms, populations, communities, and ecosystems</li> <li>Terrestrial biomes (tropical rain forest, savanna, temperate forest, desert, grassland, taiga, and tundra) compared to aquatic ecosystems (freshwater, estuaries, marine)</li> </ul>	Review of core ideas from all previous units

# Worth County Middle School Seventh Grade Curriculum Map rev 7/2022

1st Nine Weeks	2 <sup>nd</sup> Nine Weeks	3 <sup>rd</sup> Nine Weeks	4 <sup>th</sup> Nine Weeks
Gifted Components:	Gifted Components:	Gifted Components:	Gifted Components:
All accelerated science lessons are	All accelerated science lessons are	All accelerated science lessons are completed	All accelerated science lessons are
completed using extensive critical	completed using extensive critical	using extensive critical thinking, and station	completed using extensive critical
thinking, and station learning.	thinking, and station learning.	learning.	thinking, and station learning.
	Divergent book study		
Classroom Cell PBL	STEM Adaptations PBL	Biodome PBL	STEAM initiatives
	-		
Unit 1-Core Ideas	Unit 3-Core Ideas	Unit 6-Core Ideas	Unit 7-Review of Core Ideas from all
Structure and Function	Cause and Effect	Energy and Matter-Flows, cycles and conservation	previous units. Review of crosscutting
Scale, Proportion and Quantity	1. Organisms reproduce, either	System and System Models	concepts and engineering practices.
1. All living things are made up of cells,	sexually or asexually, and transfer	1. Organisms, and populations of organisms, are	
which is the smallest unit that can be	their genetic information to their	dependent on their environmental interactions	
said to be alive. An organism may	offspring. (secondary to MSLS3-2)	both with other living things and with nonliving	
consist of one single cell (unicellular) or	2. Animals engage in characteristic	factors. (MS-LS2-1)	
many different numbers and types of	behaviors that increase the odds of	2.In any ecosystem, organisms and populations	
cells (multicellular). (MS-LS1-1)	reproduction. (MS-LS1-4)	with similar requirements for food, water, oxygen,	
2. Within cells, special structures are	3.Plants reproduce in a variety of	or other resources may compete with each other for limited resources, access to which consequently	
responsible for particular functions, and	ways, sometimes depending on animal	constrains their growth and reproduction.	
the cell membrane forms the boundary	behavior and specialized features for	(MS-LS2-1)	
that controls what enters and leaves the	reproduction. (MS-LS1-4)	3.Growth of organisms and population increases	
cell. (MS-LS1-2)	4.Genetic factors as well as local	are limited by access to resources. (MS-LS2-1)	
3. Within individual organisms, food	conditions affect the growth of the	4.Similarly, predatory interactions may reduce the	
moves through a series of chemical	adult plant. (MS-LS1-5) Genes are	number of organisms or eliminate whole	
reactions in which it is broken down and	located in the chromosomes of cells,	populations of organisms. Mutually beneficial	
rearranged to form new molecules, to	with each chromosome pair containing	interactions, in contrast, may become so	
support growth, or to release energy. (MS-LS1-7)	two variants of each of many distinct genes. Each distinct gene chiefly	interdependent that each organism requires the	
4. Plants, algae (including	controls the production of specific	other for survival. Although the species involved in	
phytoplankton), and many	proteins, which in turn affects the	these competitive, predatory, and mutually	
microorganisms use the energy from	traits of the individual. Changes	beneficial interactions vary across ecosystems, the	
light to make sugars (food) from carbon	(mutations) to genes can result in	patterns of interactions of organisms with their	
dioxide from the atmosphere and water	changes to proteins, which can affect	environments, both living and nonliving, are shared. (MS-LS2-2)	
through the process of photosynthesis,	the structures and functions of the	5. Food webs are models that demonstrate how	
which also releases oxygen. These sugars	organism and thereby change traits.	matter and energy is transferred between	
can be used immediately or stored for	(MS-LS3-1)	producers, consumers, and decomposers as the	
growth or later use. (MS-LS1-6)	6. Variations of inherited traits between	three groups interact within an ecosystem.	
H. W. A.C.	parent and offspring arise from genetic	Transfers of matter into and out of the physical	
Unit- 2 Core Ideas	differences that result from the subset	environment occur at every level. Decomposers	
Systems and System Models Structure and Function	of chromosomes (and therefore genes)	recycle nutrients from dead plant or animal matter	
1. In multicellular organisms, the body is	inherited. (MS-LS3-2)	back to the soil in terrestrial environments or to	
a system of multiple interacting	7.In sexually reproducing organisms,	the water in aquatic environments. The atoms that	
a system of multiple interacting	each parent contributes half of the	make up the organisms in an ecosystem are cycled	

subsystems. These subsystems are groups of cells that work together to form tissues and organs that are specialized for particular body functions. (MS-LS1-3)

2. Each sense receptor responds to different inputs (electromagnetic, mechanical, chemical), transmitting them as signals that travel along nerve cells to the brain. The signals are then processed in the brain, resulting in immediate behaviors or memories. (MS-LS1-8)

genes acquired (at random) by the offspring. Individuals have two of each chromosome and hence two alleles of each gene, one acquired from each parent. These versions may be identical or may differ from each other. (MS-LS3-2)
8.In addition to variations that arise from sexual reproduction, genetic information can be altered because of

information can be altered because of mutations. Though rare, mutations may result in changes to the structure and function of proteins. Some changes are beneficial, others harmful, and some neutral to the organism. (MS-LS3-1)

# Unit 4-Core Ideas Stability and Change Patterns

1. The collection of fossils and their placement in chronological order (e.g., through the location of the sedimentary layers in which they are found or through radioactive dating) is known as the fossil record. It documents the existence, diversity, extinction, and change of many life forms throughout the history of life on Earth. (MS-LS4-1) 2. Anatomical similarities and differences between various organisms living today and between them and organisms in the fossil record, enable the reconstruction of evolutionary history and the inference of lines of evolutionary descent. (MS-LS4-2) 3. Comparison of the embryological development of different species also reveals similarities that show relationships not evident in the fully-formed anatomy. (MS-LS4-3) 4. Natural selection leads to the predominance of certain traits in a population, and the suppression of others. (MS-LS4-4) 5.In artificial selection, humans have the capacity to influence certain characteristics of organisms by

repeatedly between the living and nonliving parts of the ecosystem. (MS-LS2-3)

6. Ecosystems are dynamic in nature; their characteristics can vary over time. Disruptions to any physical or biological component of an ecosystem can lead to shifts in all its populations. (MS-LS2-4) 7. Biodiversity describes the variety of species found in Earth's terrestrial and oceanic ecosystems. The completeness or integrity of an ecosystem's biodiversity is often used as a measure of its health. (MS-LS2-5)

8. Changes in biodiversity can influence humans' resources, such as food, energy, and medicines, as well as ecosystem services that humans rely on—for example, water purification and recycling. (secondary to MS-LS2-5)

selective breeding. One can choose desired parental traits determined by genes, which are then passed on to offspring. (MS-LS4-5)
6. Adaptation by natural selection acting over generations is one important process by which species change over time in response to changes in environmental conditions. Traits that support successful survival and reproduction in the new environment become more common; those that do not become less common. Thus, the distribution of traits in a population changes. (MS-LS4)

#### **Unit 5-Core Ideas**

#### **Patterns**

1.Characterization of organisms based on common characteristics.2.Biodiversity of Organisms

#### **Science and Engineering Practices**

Students will engage in relevant practices of science and engineering with a disciplinary core idea, and crosscutting concepts related to their curriculum content.

- 1. Asking questions for (science) and defining problems for (engineering)
- 2. Developing and using models
- 3. Planning and carrying out investigations
- 4. Analyzing and Interpreting Data
- 5. Using Mathematics and computational thinking
- 6. Constructing explanations (for science) and designing solutions (for engineering)
- 7. Engaging in argument from evidence
- 8. Obtaining, evaluating, and communicating Information

# 7<sup>th</sup> Grade World Studies Curriculum Map

Unit 1: SouthWest Asia/Middle East Geography	Unit 2: SouthWest Asia/Middle East Culture and government	Unit 3: SouthWest Asia/Middle East History	Unit 4: SouthEast Asia Geography	Unit 5: SouthEast Asian Culture and government	Unit 6: SouthEast Asian History
-Geography of the Middle East (SS7G5) -Environmental Issues of the Middle East (SS7G6) -Where People Live and Work (SS7G7)	-Cultures and religions of the Middle East (SS7G8) -Compare and Contrast governments of the Middle East (SS7CG3) -Economies of the Middle East (SS7E4, SS7E5, SS7E6)	-Analyze continuity and change in Southwest Asia (Middle East) (SS7H2) -a. European Partitioning -b.Formation and conflicts of modern Israel -c.Division of Palestine and Israel, conflict between Sunni and Shia Muslims -d. U.S Presence in SWA	-Geography of SouthEast Asia (SS7G9) -Environmental Issues of SouthEast Asia (SS7G10) -Where people live and work (SS7G11)	-Cultures and religions of SouthEast Asia (SS7G12 -Compare and Contrast governments of SEA (SS7CG4) -Economies of SouthEast Asia (SS7E7, SS7E8, SS7E9)	-Continuity and change in SouthEast Asia (SS7H3) -a. Indian independence -b. Gandhi -c. Rebuilding of Japan -d. Communist China -e. Korea and Vietnam, containment of communism.

Unit 7: African Geography	Unit 8: African Culture and government	Unit 9: African History	Unit 10: Personal Finance
-Geography of Africa (SS7G1) -Environmental Issues of Africa (SS7G2) -Where people live and work (SS7G3)	-Cultures and religions of Africa (SS7G4) -Compare and Contrast governments of Africa (SS7CG1) -How instability impacts standards of living (SS7CG2) -Compare and contrast the economies of Africa (SS7E1) -Voluntary Trade (SS7E2) -Factors of economic growth (SS7E3)	-Analyze continuity and change in Africa (SS7H1) -a. European partitioning -b.Pan-African Movement -c.Apartheid and Nelson Mandela	-Living within one's income (SS7E10) -a.Where does income come from -b.Budgeting -c.Savings -d.Credit

## 7th Grade Math Curriculum Map

Semester I				Semester 2							
Unit 1		Unit 2		Unit 3		Unit 4		Unit 5		Unit 6	
la	Ь	2a	2b	3a	3b	3c	4a	4b	5a	5b	Culminating
Integers	Rational Numbers	Expressions and Equations	Inequalities	Ratios and Proportions	Percents	Scale Drawing <del>s</del>	2D Figures (Angles, Area, Circumference)	3D Figures (Surface Area, Volume)	Probability	Inferences	Capstone Unit
2-3 weeks	2-3 weeks	4 weeks	2 weeks	5 weeks	2 weeks	2 weeks	3 weeks	2 weeks	4 weeks	2 weeks	5 weeks
7 NR 1.1	7.NR.1.3	7.PAR.2.1	7.PAR.3.2	7.PAR.4.1	7.PAR.4.9	7.PAR.4.6	7.GSR.5.1	7.GSR.5.6	7.PR.6.1	7.PAR4.10	All standards
7 NR 1.2 7 NR 1.5 7 NR 1.7 7 NR 1.8 7 NR 1.9 7 MP 1-8	7.NR.1.4 7.NR.1.6 7.NR.1.10 7.NR.1.11 7 MP 1-8	7.PAR.2.2 7.PAR.3.1 7 MP 1-8	7 MP 1-8	7.PAR.4.2 7.PAR.4.3 7.PAR.4.4 7.PAR.4.5 7.PAR 4.8 7 MP 1-8	7 MP 1-8	7.PAR.4.7 7 MP 1-8	7.GSR.5.2 7.GSR.5.3 7.GSR.5.4 7.GSR.5.5 7 MP 1-8	7.GSR.5.7 7.GSR.5.8 7 MP 1-8	7.PR.6.2 7.PR.6.3 7.PR.6.4 7.PR.6.5 7 MP 1-8	7.PAR 4.11 7.PAR.4.12 7.PR.6.6 7 MP 1-8	7 MP 1-8
Concepts	Concepts	Concepts	Concepts	Concepts	Concepts	Concepts	Concepts	Concepts	Concepts	Concepts	Concepts
-Integer Rules -Absolute Value	Operations involving Fractions, decimals	Variable & Coefficients	Inequalities	-Ratios - Unit Rates	Multistep Ratio and Percent problems.	Scale Drawings	Constructing Triangles with given conditions	Cross-sections of 3D figures	Events -Probability (simple and compound, experimental and theoretical)	-Statistics - Populations -Samples - Validity	Test Review
-Compare & Order ers -Properties of Numbers	Converting Fractions to Decimals with long Division	Write/Interpret Algebraic Expressions	One-Step Two-step	-Lengths -Area		(using proportions)	Angles (supplementary, complementary, vertical, adjacent)	Volume, & Surface Area of 3D objects	Approximating & Predicting	Drawing Inferences w/ multiple samples	Acceleration for 8th grade math
-Add, Subtract, Multiply & Divide -Operations # lines vertical and horizontal	Looking for patterns between terminating and repeating decimals	Solving Equations w/rational numbers	Converting word problems into Inequalities	Representing Proportional Relationships		Similar figures	Write and Solve equations for unknown angles		-Lists - Tables - Diagrams Is -Sample Space	-Comparative Inferences - Measures of Center (Mean, Median, Mode) *Measures of Variablity	
Using Models to display operations	Compare and order Rational #'s	One-Step Two-step Multistep		Testing Equivalent Ratios in tables and graphs			Circumference & Area of Circles		Probability Models (uniform and non- uniform)	,	
Zero Pairs/Additive Inverse	Add, subtract, multiply, divide rational numbers	Converting word problems into equations & expression		Constant of Proportionality/ Slope			Area of 2D objects		Explaining Discrepancy		

Updated 8/13/24

7<sup>th</sup> Grade ELA Curriculum Map 2024-2025

7 <sup>th</sup> Grade ELA Curriculum Map 2024-2025							
Unit 1	Unit 2	Unit 3	Unit 4				
Informational Text &	Narrative Text & Narrative	Argumentative Text &	Review				
Informational Writing			Review				
Reading	Writing Reading	Argumentative Writing Reading	Reading				
Primary Focus:	Primary Focus	Primary Focus:	Primary Focus-				
Informational Text	Narrative Text	Argumentative Text	Literary, or Informational texts				
Secondary Focus:	Secondary Focus	Secondary Text:	(Teachers Choice)				
Poetry	Folk Tales & Fables	Informational Text	Secondary Text:				
,			Poetry/Drama				
Standards:	Standards:	Standards:	Standards:				
RI.1, RI.2, RI.3		RI.3, RI.5, RI.8, RI.9	RI.7, RL.7				
Spiral: RI.4	Spiral: RI1, RL.4, 7L1a	Spiral:_RI.1, RI.2, RI.3	Spiral: RI.4				
Text(s):	Text(s):	Text(s):	Text(s):				
"Do Animals Lie?"p. 289	"Fish Ch <b>e</b> eks" p.2	"Toward A Rainbow	"Monsters are Due on Maple				
"Variations of	"Thank you, Ma'am" p.	Nation"p.555	Street, Act 1" p.794				
	"Charles" p. 178	"Message of Hope"p. 712	"War of the Wall" p. 510				
Species"p.194 A	"The Lottery"	"Immigration"p. 16(ABC)	"Outdoor Art inAmerica" p.				
"How Evolution Happens:	"The Wise Old Woman" p.8	"The Case Against	524				
Natural Selection"p.196	"The Traveler's and the	Immigration"p.18 (ABC)	"The Road Not Taken"				
"Apes and Monkeys"p. 198	Bear" p.88	IIIIIIIgration p.16 (ABC)	"Dreams"p.393				
Research other animals	"From When Plague		"Miracles" p. 397				
who lie by nature	Striked" p. 222	Extended Text:	Will deles p. 557				
"The Giggle	production production and production		Foton dod Tout				
Prescription"p.384	_Extended Text:	The Long Walk to Water (Coincides with the study of	Extended Text: Teachers Choice				
"Face Value" p.112	"Rikki Tikki Tavi" p.38	Africa in Social Studies)	leachers choice				
"Missing" p. 854 "Birdfoot's Grampa" p. 859		,					
"Code of Success" article		Review for Georgia					
Code of Success article		Milestones using					
Resources:		Resources:					
Georgia GSC Success Grade 7	Resources:	Georgia GSC Success Grade 7	Resources:				
Language Arts(ABC), Georgia	Georgia GSC Success Grade 7	Language Arts(ABC), Georgia	Georgia GSC Success Grade 7				
Treasure Literature Book	Language Arts(ABC), Georgia	Treasure Literature Book	Language Arts(ABC), Georgia				
Course 2, Elements of	<u>Treasure Literature Book</u> <u>Course 2, Elements of</u>	Course 2, Elements of	Treasure Literature Book Course				
<u>Literature, Commonlit, Epic,</u>	Literature, Commonlit, Epic,	Literature, Commonlit, Epic,	2, Elements of Literature,				
etc.	etc.	etc. *Include any additional high	Commonlit, Epic, etc.				
*Include any additional high	*Include any additional high	interest short stories on a	* Include any additional high				
interest short stories on a	interest short stories on a	diverse set of topics.	interest short stories on a				
diverse set of topics.	diverse set of topics.		diverse set of topics.				
			1				

Writing	Writing	Writing	Writing	
Primary Focus:	Primary Focus:	Primary Focus- Argumentative	Primary Focus:	
Informational Writing	Narrative Writing	Writing	Write one example of each type	
ELAGSE7W2 a-e	ELAGSE7W3 a-e	ELAGSE7W1 a-e	of essay	
Secondary Focus: Research to Build and Present Knowledge	Secondary Focus: Research to Build and Present Knowledge *Gifted/Accelerated DAR	Secondary Focus: Research to Build and Present Knowledge *Gifted/Accelerated Young Georgia Authors	Secondary Focus: Research to Build and Present Knowledge	
Routine writing Notes, summaries, process journals, and short responses across all genres ELAGSE7W1, 2, 3, 9, 10	Routine writing Notes, summaries, process journals, and short responses across all genres ELAGSE7W1, 2, 3, 9, 10  Routine writing Notes, summaries, process journals, and short responses across all genres ELAGSE7W1, 2, 3, 9, 10		Routine writing Notes, summaries, process journals, and short responses across all genres ELAGSE7W1, 2, 3, 9, 10	
Language	Language	Language	Language	
Conventions: Parts of Speech, review, Types of Sentences, clauses/phrases, transitions. ELAGSE7L1, 2, 3	Conventions: Types of Sentences, coordinating adjectives, comma, semicolon ELAGSE7L1-3	Conventions: Usage Errors, combining sentences, redundancy/wordiness, precise/concise words ELAGSE7L1-3	Conventions: Types of Sentences, comma, semicolon Usage Errors, combining sentences, redundancy ELAGSE7L1-3	
Vocabulary: Word meanings, use of reference materials ELAGSE7L4 Common Key ELA terms-	Vocabulary: Greek and Latin roots/affixes, word meanings, figurative language, connotations/denotations; key terms	Vocabulary: Greek and Latin roots/affixes, word meanings, figurative language, connotations/denotations; key terms	Vocabulary: Greek and Latin roots/affixes, word meanings, figurative language, connotations/denotations; key terms	