## Resources In This Document:

- ★ Science Frameworks
- ★ Historical SSA Reports
- ★ Assessment Schedule
- ★ Middle School Resources
- ★ Science Fair Resources
- ★ BEST ELA/MATH
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## **CLAY COUNTY DISTRICT SCHOOLS**

## **Curriculum Hyperdoc for Grade 7 Science**

**Grade 7 STANDARD** #2002070 **Grade 7 ADVANCED** #2002080

X <u>ESSETTESSUITEES</u>			
1st Quarter (46 Days)	2nd Quarter (41 Days)	3rd Quarter (42 Days)	4th Quarter (51 Days)
Unit 1: Nature of Science [11]	Unit 9: Energy & Heat [17]	Unit 6: Plate Tectonics [8]	Unit 10: Heredity & Punnett
*(EMBEDDED THROUGHOUT	A. Energy Conversion &	A. Theory of Plate Tectonics [3]	Squares [15]
THE YEAR)	Conservation [5]	<b>B.</b> Mountain Building.	A. Heredity [6]
A. Lab Safety [1]	<b>B.</b> Temperature [3]	Earthquakes, and Volcanoes [5]	<b>B.</b> Punnett Squares and
<b>B.</b> Experimental Design* [5]	C. Heat Flow and Heating	Earthquartes, and voicarioes [5]	Pedigrees [7]
C. Theories, Laws, Hypotheses, &	Curves [7]	Unit 7: Relative & Absolute	Nature of Science [2]
Models [3]	Nature of Science [2]	Dating [10]	reactive of Science [2]
Nature of Science [2]	riatare or solelise [2]	A. Relative Dating [3]	Unit 11: Scientific Theory of
reactive or solelies [2]	Unit 5: Dynamic Earth [16]	<b>B.</b> Absolute Dating [3]	Evolution [12]
Unit 2: Forces and Energy	<b>A.</b> Atmospheric Layers Review	C. Geologic Change Over Time	A. Theory of Evolution by
Review through experimental	[2]	[2]	Natural Selection [6]
design [14]	<b>B.</b> Weather Review [3]	Nature of Science [2]	<b>B.</b> Evidence Supporting
A. Distance Vs Time Graphs	C. Earth's Layers [4]		Evolution [6]
through experimental	<b>D.</b> Weathering and Erosion	Unit 8: Hierarchy of Life [15]	=[-]
design [3]	Review [2]	A. Homeostasis & Cell Theory	Unit 12: Ecology [12]
B. Types of Energy [3]	<b>E.</b> The Rock Cycle [3]	Review [2]	A. Roles in Energy Transfer [4]
C. Types of Forces [4]	Nature of Science [2]	<b>B.</b> Cell Organelles Review [3]	<b>B.</b> Interactions in Communities
Nature of Science [4]		<b>C.</b> DNA [2]	[4]
	Unit 6: Plate Tectonics [5]	<b>D.</b> Human Body Systems [4]	C. Limiting Factors [3]
<u>Unit 3: Waves</u> [17]	A. Theory of Plate Tectonics [5]	E. Classification [3]	Nature of Science [1]
A. Properties of Waves [5]		Nature of Science [1]	Unit 13: Human Impact [3]
B. EM Spectrum and Light			A. Human Impact on Land [1]
Waves [5]		<b>Unit 9: Cell Division and</b>	B. <u>Human Impact on Air &amp;</u>
C. Waves through Different		Reproduction [7]	Water [2]
Media [5]		A. Mitosis and Asexual	
Nature of Science [2]		Reproduction [4]	<b>Unit 13: Foundations of</b>
		B. Meiosis and Sexual	<u>Biology</u>
		Reproduction [3]	Impacts of Biotechnology [2]

## **CROSS CURRICULAR BEST BENCHMARK INTEGRATION**

These benchmarks should be integrated into science lessons as appropriate as a part of the new course descriptions.

BEST ELA EXPECTATIONS	BEST MATHEMATICS
ELA.K12.EE.1.1 Cite evidence to explain and justify reasoning	MA.K12.MTR.1.1 Actively participate in effortful learning both individually and collectively.
<u>ELA.K12.EE.2.1</u> Read and comprehend grade-level complex texts proficiently	MA.K12.MTR.2.1 Demonstrate understanding by representing problems in multiple ways.
<u>ELA.K12.EE.3.1</u> Make inferences to support comprehension.	MA.K12.MTR.3.1 Complete tasks with mathematical fluency.
<u>ELA.K12.EE.4.1</u> Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.	MA.K12.MTR.4.1 Engage in discussions that reflect on the mathematical thinking of self and others.
<u>ELA.K12.EE.5.1</u> Use the accepted rules governing a specific format to create quality work.	MA.K12.MTR.5.1 Use patterns and structure to help understand and connect mathematical concepts
<u>ELA.K12.EE.6.1</u> Use appropriate voice and tone when speaking or writing.	MA.K12.MTR.6.1 Assess the reasonableness of solutions.
	MA.K12.MTR.7.1 Apply mathematics to real-world contexts.
ELD Standards for Science Grades 6-8	ESOL Content Area Glossaries

RESOURCE	DESCRIPTION	SCIENCE FAIR
One Clay Vision	This is the One Clay Vision for Instruction. Included are links to each of the indicators as well as the Quarterly Focus areas.	ISEF Rulebook 2023-2024
<u>District Science</u> <u>Instructional Goals and</u> <u>Frameworks</u>	Annual instructional goals and the frameworks for quality science instruction are linked in this document.	Science Fair Participation Plan 2023-2024
Middle School <u>Annually</u> <u>Assessed Benchmarks</u>	A listing of all 32 annually assessed benchmarks grades 6-8 and their also assessed benchmarks.	Clay County Science Fair Teacher Resources Folder
FLDOE <u>Grade 8 Item</u> <u>Specifications</u>	This document outlines the benchmarks that are taught (by grade level) and gives guidance on what will and will not be assessed on our district tests as well as the FLDOE SSA.	Science Fair: A Teacher's Guide
SSA Item Specification <u>Task Cards</u>	Task cards for each for the 32 annually assessed benchmarks that include multiple strategies and resources	Science Fair Research Plan: Hyperlinked Slide for Students
FLDOE <u>Cognitive</u> <u>Complexity</u> <u>Classifications</u>	This document differentiates between what students will be required to do for a low, moderate, or high complexity item. Science descriptors can be found on page 4.	<u>Links to ISEF Paperwork*</u> *Coming Soon
FLDOE <u>SSA Assessment</u> <u>Schedules</u>	A listing of the State testing windows for all assessments.	Science Fair Display Resources* *Coming Soon

QUARTER 1 PACING GUIDE				
		AUGUST		
31	1	2 Preplanning	3 Preplanning	4 District Inservice Day
7	8	9	10	11
Preplanning	Preplanning	Preplanning	First Day for Students	Rules and Procedures
14	15	16	17	18
<u>Lab Safety</u>	Experimental Design	Experimental Design	Experimental Design	Experimental Design
21	22	23	24	25
Experimental Design	Nature of Science	Nature of Science	Theories and Laws	Theories and Laws
		SEPTEMBER		
28	29	30	31	1
Theories and Laws	<u>Distance vs Time</u>	Distance vs Time	Distance vs Time	Nature of Science
4	5 FLEX	6	7	8
Labor Day	Nature of Science	Energy	Energy	Energy
11	12	13	14	15
Forces	Forces	Forces	Forces	Nature of Science
18	19	20	21	22
Nature of Science	Flex	<u>Waves</u>	Waves	Waves
25	26	27	28	29
Waves	Waves	EM Spectrum	EM Spectrum	EM Spectrum
OCTOBER				
2	3	4	5	6
EM Spectrum	EM Spectrum	<u>Waves in Media</u>	Waves in Media	Waves in Media
9	10	11	12	13 FLEX
Waves in Media	Waves in Media	Nature of Science	Nature of Science	End 1st Quarter

QUARTER 2 PACING GUIDE				
		OCTOBER		
16	17	18	19	20
Planning Day	Energy Conservation	Energy Conservation	Energy Conservation	Energy Conservation
23	24	25	26	27
Energy Conservation	Temperature	Temperature	Temperature	Heat Flow
		NOVEMBER		
30	31	1	2	3
Heat Flow	Heat Flow	Heat Flow	Heat Flow	Heat Flow
6	7	8 FLEX	9	10
Heat Flow	Nature of Science	Nature of Science	Atmosphere Layers	Veteran's Day
13	14	15	16	17
Atmosphere Layers	Weather	Weather	Weather	Earth's Layers
20-24: THANKSGIVING BREAK				
		DECEMBER		
27	28	29	30	1
Earth's Layers	Earth's Layers	Earth's Layers	Weathering/Erosion	Weathering/Erosion
4	5	6	7	8 FLEX
Rock Cycle	Rock Cycle	Rock Cycle	Nature of Science	Nature of Science
11	12	13	14	15
Plate Tectonics	Plate Tectonics	Plate Tectonics	Plate Tectonics	Plate Tectonics
18	19	20	21	22
Mid Year	Mid Year	End 2nd Quarter	Winter Break	Winter Break

QUARTER 3 PACING GUIDE				
		JANUARY		
1	2	3	4	5
Winter Break	Winter Break	Winter Break	Winter Break	Planning Day
8	9	10	11	12
Rules and Procedures	Plate Tectonics	Plate Tectonics	Plate Tectonics	Mount. EQ. Volcanoes
15	16	17	18	19
Dr. MLK Day	Mount. EQ. Volcanoes	Mount. EQ. Volcanoes	Mount. EQ. Volcanoes	Mount. EQ. Volcanoes
22	23	24	25	26
Relative Dating	Relative Dating	Relative Dating	Absolute Dating	Absolute Dating
		FEBRUARY		
29	30	31	1	2 FLEX
Absolute Dating	Geo Change/ Time	Geo Change/ Time	Nature of Science	Nature of Science
5	6	7	8	9
Homeostasis/Cell The.	Homeostasis/Cell The.	Organelles	Organelles	Organelles
12	13	14	15	16
Organelles	DNA	DNA	Human Body	Human Body
19	20	21	22	23
President's Day	Human Body	Human Body	Classification	Classification
MARCH				
26	27 FLEX	28	29	1
Classification	Nature of Science	Mitosis	Mitosis	Mitosis
4	5	6	7 Meiosis	8
Mitosis	Meiosis	Meiosis	End of 3rd Quarter	Planning Day

QUARTER 4 PACING GUIDE					
	MARCH				
		11-15 SPRING BREAK			
18	19	20	21	22	
Heredity	Heredity	Heredity	Heredity	Heredity	
25	26	27	28	29	
Heredity	Punnett Squares	Punnett Squares	Punnett Squares	Good Friday	
		APRIL			
1	2	3	4	5	
Pedigrees	Pedigrees	Pedigrees	Pedigrees	Nature of Science	
8 FLEX	9	10	11	12	
Nature of Science	Theory of Evolution	Theory of Evolution	Theory of Evolution	Fair Day	
15	16	17	18	19	
Theory of Evolution	Theory of Evolution	Theory of Evolution	Evidence of Evolution	Evidence of Evolution	
22	23	24	25	26	
Evidence of Evolution	Evidence of Evolution	Evidence of Evolution	Evidence of Evolution	Flex	
		MAY			
29	30	1	2	3	
Energy Transfer	Energy Transfer	Energy Transfer	Energy Transfer	Communities	
6	7	8	9	10	
Communities	Communities	Communities	Limiting Factors	Limiting Factors	
13	14	15	16	17	
Limiting Factors	Nature of Science	Human Impact	Human Impact	Human Impact	
20	21	22	23	24	
Review	Review	Review	EOC	EOC	
27	28	29	30	31	
Memorial Day	Biotechnology	Biotechnology	Last Day of School		