

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 1: Structure and Function of Cells

Students recognize the levels of organization in living things and the components of the Cell Theory and differentiate between the structure and function in plant and animal cells.

2021		August				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02	03	04	05	06	07
	Enrichment Opportunities					
08	09	10	11	12	13	14
	Enrichment Opportunities					
15	16	17	18	19	20	21
	Teacher Service Days (no students)		Teacher Prep Day (no students)	Teacher Service Days (no students)		
22 C1W1	23 Unit 1 (22 45-min. class periods)	24	25	26	27	28
29 C1W2	30 Unit 1 (22 45-min. class periods)	31	01	02	03	04
05	06	Notes: Aug. 16-20 - Teacher Service Days (no students)				



Secondary Curriculum and Development

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Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 1: Structure and Function of Cells

Students recognize the levels of organization in living things and the components of the Cell Theory and differentiate between the structure and function in plant and animal cells.

2021		September				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29 C1W2	30	31	01 Unit 1 (22 45-min. class periods)	02	03	04
05 C1W3	06 Labor Day	07 Unit 1 (22 45-min. class periods)	08	09	10	11
12 C1W4	13 Unit 1 (22 45-min. class periods)	14	15	16 Fall Holiday	17 Teacher Service Day (no students)	18
19 C1W5	20 Unit 1 (22 45-min. class periods)	21	22	23	24	25
26 C1W6	27 • Extend • Review • Assess • Reteach	28	29	30	01	02
03	04	Notes: Sept. 6 - Labor Day Sept. 16 - Fall Holiday Sept. 17 - Teacher Service Day (no students)				

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 2: Human Body Systems and STEM

Students identify the main functions of the systems by methods of scientific inquiry of the circulatory, respiratory, skeletal, muscular, digestive, excretory, reproductive, integumentary, nervous, and endocrine systems of the human body.

2021		October				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26 C1W6	27	28	29	30	01 • Extend • Review • Assess • Reteach	02 END OF CYCLE 1
03 C2W1	04 Teacher Service Day (no students)	05 Unit 2 (24 45-min. class periods)	06	07	08	09
10 C2W2	11 Unit 2 (24 45-min. class periods)	12	13	14	15	16
17 C2W3	18 Unit 2 (24 45-min. class periods)	19	20	21	22	23
24 C2W4	25 Unit 2 (24 45-min. class periods)	26	27	28	29	30
31	01	Notes: Oct. 4 - Teacher Service Day (no students)				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 2: Human Body Systems and STEM

Students identify the main functions of the systems by methods of scientific inquiry of the circulatory, respiratory, skeletal, muscular, digestive, excretory, reproductive, integumentary, nervous, and endocrine systems of the human body.

Unit 3: Stimulus and Response

Students investigate and describe how organisms respond and relate to responses to internal and external stimuli in human body.

2021		November				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31 C2W5	01 Unit 2 (24 45-min. class periods)	02	03	04	05	06
07 C2W6	08 • Extend • Review • Assess • Reteach	09	10	11	12	13 END OF CYCLE 2
14 C3W1	15 Unit 3 (8 45-min. class periods)	16	17	18	19	20
21	22	23	24	25	26	27
Thanksgiving						
28 C3W2	29 Unit 3 (8 45-min. class periods)	30	01	02	03	04
05	06	Notes: Nov. 22-26 - Thanksgiving Break				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 3: Stimulus and Response
Students investigate and describe how organisms respond and relate to responses to internal and external stimuli in human body.

Unit 4: Matter and Energy within an Organism
Students distinguish and illustrate physical and chemical properties and the relationship between energy transformations within an organism.

2021		December				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28 C3W2	29	30	01 Unit 3 (8 45-min. class periods)	02 Unit 4 (16 45-min. class periods)	03	04
05 C3W3	06 Unit 4 (16 45-min. class periods)	07	08	09	10	11
12 C3W4	13 Unit 4 (16 45-min. class periods)	14	15	16	17	18
19	20 Enrichment Opportunities	21	22 Winter Break	23 Winter Break	24 Winter Break	25
26	27 Winter Break	28 Winter Break	29 Winter Break	30 Winter Break	31 Winter Break	01
02	03	Notes: Dec. 20-31 - Winter Break				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 4: Matter and Energy within an Organism

Students distinguish and illustrate physical and chemical properties and the relationship between energy transformations within an organism.

Unit 5: Genetics

Students recognize that inherited traits of individuals are governed and define heredity, and compare results of offspring from asexual and sexual reproduction.

2022		January				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02 C3W5	03 Unit 4 (16 45-min. class periods)	04	05	06	07 • Extend • Review • Assess • Reteach	08
09 C3W6	10 • Extend • Review • Assess • Reteach	11	12	13	14	15
16 C4W1	17 Martin Luther King, Jr. Day	18 Teacher Prep Day (no students)	19 Unit 5 (10 45-min. class periods)	20	21	22
23 C4W2	24 Unit 5 (10 45-min. class periods)	25	26	27	28	29
30 C4W3	31 Unit 5 (10 45-min. class periods)	Notes: Jan. 17 - Martin Luther King, Jr. Day Jan. 18 - Teacher Preparation Day (no students)				
						END OF CYCLE 3



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 5: Genetics
Students recognize that inherited traits of individuals are governed and define heredity, and compare results of offspring from asexual and sexual reproduction.

Unit 6: Variations Within Species
Students examine, explain investigate and identify how organisms' genetic variations contribute to sustainability within a population.

Unit 7: Plant Processes
Students investigate structures that enhance a plant's survival that recognizes energy transformations during photosynthesis, demonstrates and illustrates forces that effect motion in plants.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30 C4W3	31	01 Unit 5 (10 45-min. class periods)	02 Unit 6 (12 45-min. class periods)	03	04	05
06 C4W4	07 Unit 6 (12 45-min. class periods)	08	09	10	11	12
13 C4W5	14 Unit 6 (12 45-min. class periods)	15	16	17	18 • Extend • Review • Assess • Reteach	19
20 C4W6	21 Teacher Service Day (no students)	22 • Extend • Review • Assess • Reteach	23	24	25	26 END OF CYCLE 4
27 C5W1	28 Unit 7 (26 45-min. class periods)	01	02	03	04	05
06	07	Notes: Feb. 21 - Teacher Service Day (no students)				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 7: Plant Processes

Students investigate structures that enhance a plant's survival that recognizes energy transformations during photosynthesis, demonstrates and illustrates forces that effect motion in plants.

2022	March					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27 C5W1	28	01 Unit 7 (26 45-min. class periods)	02	03	04	05
06 C5W2	07 Unit 7 (26 45-min. class periods)	08	09	10	11	12
13	14	15	16	17	18	19
	Enrichment Opportunities			Spring Break		
20 C5W3	21 Unit 7 (26 45-min. class periods)	22	23	24	25	26
27 C5W4	28 Chávez / Huerta Day	29 Unit 7 (26 45-min. class periods)	30	31	01	02
03	04	Notes: Mar. 14-18 - Spring Break Mar. 28 - César Chávez/Dolores Huerta Day				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 7: Plant Processes

Students investigate structures that enhance a plant's survival that recognizes energy transformations during photosynthesis, demonstrates and illustrates forces that effect motion in plants.

Unit 8: Biodiversity

Students observe and describe how energy flows through living systems and the role of ecological succession and how it contributes to the biodiversity within an ecosystem.

2022		April				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27 C5W4	28	29	30	31	01 Unit 7 (26 45-min. class periods)	02
03 C5W5	04 Unit 7 (26 45-min. class periods)	05	06	07	08	09
10 C5W6	11 Unit 7 (26 45-min. class periods)	12	13 • Extend • Review • Assess • Reteach	14	15 Spring Holiday	16
17 C5W7	18 • Extend • Review • Assess • Reteach	19	20	21	22	23
24 C6W1	25 Unit 8 (12 45-min. class periods)	26	27	28	29	30 END OF CYCLE 5
01	02	Notes: Apr. 15 - Spring Holiday				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

Unit 8: Biodiversity

Students observe and describe how energy flows through living systems and the role of ecological succession and how it contributes to the biodiversity within an ecosystem.

Unit 9: Catastrophic Events and Ecosystems

Students predict and describe the effect of catastrophic events on systems of Earth, and analyze the effects of weathering, erosions and deposition of ecoregions of Texas and model humans' impact on watersheds.

Unit 10: Characteristics of Our Solar System

Students analyze characteristics of objects in our solar system and identify characteristics that enable manned space explorations.

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01 C6W2	02 Unit 8 (12 45-min. class periods)	03	04	05	06	07
08 C6W3	09 Unit 8 (12 45-min. class periods)	10	11 Unit 9 (10 45-min. class periods)	12	13	14
15 C6W4	16 Unit 9 (10 45-min. class periods)	17	18	19	20	21
22 C6W5	23 Unit 9 (10 45-min. class periods)	24	25 Unit 10 (4 45-min. class periods)	26	27	28
29 C6W6	30 Memorial Day	31 Unit 10 (4 45-min. class periods)	01	02	03	04
05	06	Notes: May 30 - Memorial Day				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 7

2021-2022 Pacing Calendar

Units of Instruction

2022		June				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29 C6W6	30	31	01 • Extend • Review • Assess • Reteach	02	03	04
05 C6W7	06 • Extend • Review • Assess • Reteach	07	08 Teacher Prep Day (no students) END OF CYCLE 6	09	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	01	02
03	04	Notes: Jun. 8 - Teacher Preparation Day (no students)				