



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 1: Introduction to Chemistry

Students explore structures of atoms, describe properties of matter, construct atomic models, and explain the arrangement of elements found on the Periodic Table.

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

ALIGN, ADVANCE, ENGAGE.

Science – Grade 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 1: Introduction to Chemistry

Students explore structures of atoms, describe properties of matter, construct atomic models, and explain the arrangement of elements found on the Periodic Table.

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 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 2: Chemical Reactions

Students investigate evidence of chemical reactions and how that relates to the law of conservation of mass.

Unit 3: Force and Motion Basics

Students investigate and demonstrate how forces and motion are interrelated.

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 (8 45-min. class periods)	06	07	08	09
10 C2W2	11 Unit 2 (8 45-min. class periods)	12	13	14	15 Unit 3 (16 45-min. class periods)	16
17 C2W3	18 Unit 3 (16 45-min. class periods)	19	20	21	22	23
24 C2W4	25 Unit 3 (16 45-min. class periods)	26	27	28	29	30
31	01	Notes: Oct. 4 - Teacher Service Day (no students)				

Science – Grade 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 3: Force and Motion Basics

Students investigate and demonstrate how forces and motion are interrelated.

Unit 4: Laws of Force and Motion

Students investigate the three laws of motion in everyday life situations.

2021		November				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31 C2W5	01 Unit 3 (16 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 4 (8 45-min. class periods)	16	17	18	19	20
21	22	23	24	25	26	27
Thanksgiving						
28 C3W2	29 Unit 4 (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 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 4: Laws of Force and Motion

Students investigate the three laws of motion in everyday life situations.

Unit 5: Earth, Sun, Moon

Students use models to describe the interactions between the sun, moon, and Earth.

2021		December				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
28 C3W2	29	30	01 Unit 4 (8 45-min. class periods)	02 Unit 5 (16 45-min. class periods)	03	04
05 C3W3	06 Unit 5 (16 45-min. class periods)	07	08	09	10	11
12 C3W4	13 Unit 5 (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 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 5: Earth, Sun, Moon
Students use models to describe the interactions between the sun, moon, and Earth.

Unit 6: The Universe
Students describe components of the universe and use the H-R diagram model for classifying stars.

Unit 7: Atmospheric Movement
Students research and investigate weather patterns and create models to describe the role of the ocean on the formation of weather systems.

2022		January				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	01
02 C3W5	03 Unit 5 (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 END OF CYCLE 3
16 C4W1	17 Martin Luther King, Jr. Day	18 Teacher Prep Day (no students)	19 Unit 6 (8 45-min. class periods)	20	21	22
23 C4W2	24 Unit 6 (8 45-min. class periods)	25	26	27	28	29
30 C4W3	31 Unit 7 (6 45-min. class periods)	Notes: Jan. 17 - Martin Luther King, Jr. Day Jan. 18 - Teacher Preparation Day (no students)				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 7: Atmospheric Movement
Students research and investigate weather patterns and create models to describe the role of the ocean on the formation of weather systems.

Unit 8: Topographic Maps, Plate Tectonics, Satellite Images
Students relate plate tectonics to crustal features and interpret and explain changes in Earth's features using topographic maps and satellite views.

Unit 9: Ecosystems
Students investigate abiotic and biotic interactions within ecosystems and how human activities contribute to modifying Earth's ecosystems.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30 C4W3	31	01 Unit 7 (6 45-min. class periods)	02	03	04	05
06 C4W4	07 Unit 7 (6 45-min. class periods)	08 Unit 8 (8 45-min. class periods)	09	10	11	12
13 C4W5	14 Unit 8 (8 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 9 (8 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 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 9: Ecosystems
Students investigate abiotic and biotic interactions within ecosystems and how human activities contribute to modifying Earth's ecosystems.

Unit 10: Grade 8 Science STAAR Review
Students review key concepts (with process skills embedded) from all reporting categories, using games, card sorts, graphic organizers, lab station activities and other various manipulatives to help prepare for the Grade 8 Science STAAR.

2022		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27 C5W1	28	01 Unit 9 (8 45-min. class periods)	02	03	04	05
06 C5W2	07 Unit 9 (8 45-min. class periods)	08	09	10 Unit 10 (18 45-min. class periods)	11	12
13	14	15	16	17	18	19
	Enrichment Opportunities			Spring Break		
20 C5W3	21 Unit 10 (18 45-min. class periods)	22	23	24	25	26
27 C5W4	28 Chávez / Huerta Day	29 Unit 10 (18 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 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 10: Grade 8 Science STAAR Review

Students review key concepts (with process skills embedded) from all reporting categories, using games, card sorts, graphic organizers, lab station activities and other various manipulatives to help prepare for the Grade 8 Science STAAR.

Unit 11: STEM Cases

Students engage in solving real world problems by applying the methods of scientific inquiry.

2022		April				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27 C5W4	28	29	30	31	01 Unit 10 (18 45-min. class periods)	02
03 C5W5	04 Unit 10 (18 45-min. class periods)	05	06	07	08	09
10 C5W6	11 Unit 10 (18 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 END OF CYCLE 5
24 C6W1	25 Unit 11 (26 45-min. class periods)	26	27	28	29	30
01	02	Notes: Apr. 15 - Spring Holiday				



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 8

2021-2022 Pacing Calendar

Units of Instruction

Unit 11: STEM Cases

Students engage in solving real world problems by applying the methods of scientific inquiry.

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



Secondary Curriculum and Development

ALIGN, ADVANCE, ENGAGE.

Science – Grade 8

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)				