Name: Kristoffer Van Atten		Grading Quarter: Q1	Week Beginning: August 5, 2024
School Year: 2024 - 25		Subject: 8th Grade Science – Physical Science	
Monday	Notes:	Objective: First Day Fun! Introductions/Ice Breakers SWBAT establish, understand, and follow class rules, expectations, and routines. Lesson Overview: Teacher facilitates class discussion about healthy communication including respect for self, each other, and the classroom as well as how to keep everyone (students/teachers/admin) accountable for their performance in class. Student Planner & Handbook Review Classroom tour including lab safety and PPE.	Academic Standards:
Tuesday	Notes:	Objective: Second Day Fun! Science! SWBAT establish, understand, and follow class rules, expectations, and routines. Lesson Overview: Teacher facilitates discussion about rules and etiquette in the classroom, reinforcing prior conversations. Laptop distribution happens today, so there are bound to be disruptions. Teacher facilitates discussion about the scientific inquiry process, delving into the origin of the universe to today. Teacher distributes consumables.	Academic Standards: NGSS MS-ETS1-1&2 AzSS 8.P1U1.1 8.P1U1.2 8.P1U1.3
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students encounter the phenomenon (a picture taken of a train window showing motion blur) students will attempt to infer the position and motion of the train and begin a CER investigation. Teacher introduces the module project. Diagnostic pretests and science probes	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations on position and motion (orienteering) describing position using one and two units. Teacher-moderated discussion and activity on SI units. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Friday	Notes: No School PD Day	Objective: Lesson Overview:	Academic Standards:

Name: Kristoffer Van Atten		Grading Quarter: Q1	Week Beginning: August 12, 2024
School Year: 2024 - 25		Subject: 8th Grade Science – Physical Science	
Monday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students encounter the phenomenon (a picture taken of a train window showing motion blur) students will attempt to infer the position and motion of the train and begin a CER investigation. Discussion of Train Probe	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Tuesday	Notes:	Objective: SWBAT complete the AZSci Pretest Lesson Overview: Students work in DnA Illuminate to complete a Pretest for AzSci standards to establish baseline knowledge.	
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations on position and motion (orienteering) describing position using one and two units. Teacher-moderated discussion and activity on SI units. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations relative position and compute speed as a displacement of distance over time Teacher-moderated discussion and activity on speed and slope. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations on vector and velocity Teacher-moderated discussion and activity magnitude and direction. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4

Name: Kristoffer Van Atten		Grading Quarter: Q1	Week Beginning: August 19, 2024
School Year: 2024 - 25		Subject: 8th Grade Science – Physical Science	
Monday	Notes: No School		
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations relative position and compute speed as a displacement of distance over time Teacher-moderated discussion and activity on speed and slope. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations relative position and compute speed as a displacement of distance over time Teacher-moderated discussion and activity on speed and slope. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations on vector and velocity Teacher-moderated discussion and activity magnitude and direction. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations on vector and velocity Teacher-moderated discussion and activity magnitude and direction. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4

Name: Kristoffer Van Atten	Grading Quarter: Q1	Week Beginning: August 26, 2024
School Year: 2024 - 25	Subject: 8th Grade Science – Physical Science	

Monday		Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L1: Position and Motion SWBAT describe the position and motion of an object Lesson Overview: Students perform investigations on vector and velocity Teacher-moderated discussion and activity magnitude and direction. Introduce academic words (position, reference (point and direction), arbitrary, relative, relations, motion, distance, displacement, model)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Tuesday	Notes:	Objective: Life Science: Ecology Data Nugget: Does more rain make healthy bison babies? Lesson Overview: Students practice understanding and applying engineering and science practices through a mini lesson on ecology and scientific inquiry	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT Plan an investigation and provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Probe: Constant mowing Teacher-moderated discussion and activity on forces and acceleration. Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT Plan an investigation and provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT Plan an investigation and provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4

Name: Kristoffer Van Atten		Grading Quarter: Q1	Week Beginning: September 2, 2024
School Year: 2024 - 25		Subject: 8th Grade Science – Physical Science	
Monday	Notes: No School	Objective: Lesson Overview:	Academic Standards:
Tuesday	Notes:	Objective: Review, Edit, and Corrections Day SWBAT understand what level of attempt is expected in assignments and how assignments are assessed, graded, and how corrections need to be made. Lesson Overview: Review and Correct: Data Nugget: Bisons Review and Correct: U1M1L1 Lesson check	Academic Standards:
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT Plan an investigation and provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT Plan an investigation and provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4

Name: Kristoffer Van Atten		Grading Quarter: Q1	Week Beginning: September 9, 2024
School Year: 2024 - 25		Subject: 8th Grade Science – Physical Science	
Monday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT discover how plate tectonics relate to forces and acceleration Lesson Overview: Students watch videos and answer questions based on their observations of plate tectonics Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT Plan an investigation and provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT Plan an investigation and provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students perform investigations on changes in velocity and the forces that cause an object to accelerate Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4

Name: Kristoffer Van Atten		Grading Quarter: Q1	Week Beginning: September 16, 2024
School Year: 2024 - 25		Subject: 8th Grade Science – Physical Science	
Monday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students will finish up lesson with a review of concepts, terms, and clearing of misconceptions Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L2: Force and Acceleration SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students complete a formative lesson check Introduce academic words (velocity, Force, contact force, acceleration)	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L3: Force Pairs SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students will encounter the phenomenon of how every force has an equal and opposite force pair. Students will complete a science probe.	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L3: Force Pairs SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students will perform investigations and labs on Newton's Third Law of motion.	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Friday	Notes:	Nexus Coalition Drug Prevention Training	

Name: Kristoffer Van Atten		Grading Quarter: Q1	Week Beginning: September 23, 2024
School Year: 2024 - 25		Subject: 8th Grade Science – Physical Science	
Monday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L3: Force Pairs SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students will perform investigations and labs on Newton's Third Law of motion. Introduce Force Pairs, Normal Force	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L3: Force Pairs SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students will perform investigations and labs on Newton's Third Law of motion. Bounce Back lab	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L3: Force Pairs SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students will perform investigations and labs on Newton's Third Law of motion. Elastic v inelastic collisions	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L3: Force Pairs SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students will perform investigations and labs on Newton's Third Law of motion. Review for Lesson Check	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science M1: Energy and Motion; U1: Forces and Motion; L3: Force Pairs SWBAT understand force pairs and how they relate to the Laws of Motion. Lesson Overview: Students will perform investigations and labs on Newton's Third Law of motion. Lesson 3 Check!	Academic Standards: NGSS MS-ETS1-1&2 MS-PS2-1&2,4 AzSS 7.P3U1.3 7.P3U1.4