

Name: Kristoffer Van Atten		Grading Quarter: Q3	Week Beginning: January 6, 2025
School Year: 2024 - 25		Subject: 8 <sup>th</sup> Grade Science – Physical Science	
Monday	Notes:	No School – PD Day	
Tuesday	Notes:	<p>Objective: McGraw-Hill Inspire Science Physical Science U1: Energy and Motion; M3: Electromagnetic Forces; L4:Electromagnetism SWBAT explore electromagnetism, or the interaction between electric charges and magnets. They will investigate how electric currents generate magnetic fields and how magnetic fields can be used to generate electric current through the exertion of forces at a distance. They will develop and use models to enhance their understanding of these processes and will investigate and explain the causes and effects of changes to electromagnetic devices.</p> <p>Lesson Overview: Students will encounter the phenomenon of loudspeakers and metal detectors and make claims about the interaction of electric current and magnets</p>	<p>Academic Standards: NGSS: MS-PS2-3. A-C MS-ETS1-4: B, C AzSS: 8.P1U1.3,5</p>
Wednesday	Notes:	<p>Objective: McGraw-Hill Inspire Science Physical Science U1: Energy and Motion; M3: Electromagnetic Forces; L4:Electromagnetism SWBAT explore electromagnetism, or the interaction between electric charges and magnets. They will investigate how electric currents generate magnetic fields and how magnetic fields can be used to generate electric current through the exertion of forces at a distance. They will develop and use models to enhance their understanding of these processes and will investigate and explain the causes and effects of changes to electromagnetic devices.</p> <p>Lesson Overview: Students will perform investigations and labs on current and magnetic fields</p>	<p>Academic Standards: NGSS: MS-PS2-3. A-C MS-ETS1-4: B, C AzSS: 8.P1U1.3,5</p>
Thursday	Notes:	<p>Objective: McGraw-Hill Inspire Science Physical Science U1: Energy and Motion; M3: Electromagnetic Forces; L4:Electromagnetism SWBAT explore electromagnetism, or the interaction between electric charges and magnets. They will investigate how electric currents generate magnetic fields and how magnetic fields can be used to generate electric current through the exertion of forces at a distance. They will develop and use models to enhance their understanding of these processes and will investigate and explain the causes and effects of changes to electromagnetic devices.</p> <p>Lesson Overview: Students will perform investigations and labs on electric motors and generators</p>	<p>Academic Standards: NGSS: MS-PS2-3. A-C MS-ETS1-4: B, C AzSS: 8.P1U1.3,5</p>

Friday	Notes:	<p>Objective: McGraw-Hill Inspire Science Physical Science  U1: Energy and Motion; M3: Electromagnetic Forces; L4:Electromagnetism  SWBAT explore electromagnetism, or the interaction between electric charges and magnets. They will investigate how electric currents generate magnetic fields and how magnetic fields can be used to generate electric current through the exertion of forces at a distance. They will develop and use models to enhance their understanding of these processes and will investigate and explain the causes and effects of changes to electromagnetic devices.</p> <p>Lesson Overview: Students will complete a formative assessment on electromagnetism</p>	<p>Academic Standards:  NGSS:  MS-PS2-3.  A-C  MS-ETS1-4: B, C  AzSS:  8.P1U1.3,5</p>
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Name: Kristoffer Van Atten		Grading Quarter: Q3	Week Beginning: January 13, 2025
School Year: 2024 - 25		Subject: 8 <sup>th</sup> Grade Science – Physical Science	
Monday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U1: Energy and Motion; M3: Electromagnetic Forces; L4: Electromagnetism SWBAT explore electromagnetism, or the interaction between electric charges and magnets.. Lesson Overview: Students will review and take a formative assessment on electromagnetism	Academic Standards: NGSS: MS-PS2-3. A-C MS-ETS1-4: B, C AzSS: 8.P1U1.3,5
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U1: Energy and Motion; M3: Electromagnetic Forces; SWBAT explore electromagnetism, or the interaction between electric charges and magnets. Lesson Overview: Students will complete a summative assessment on electromagnetic forces	Academic Standards: NGSS: MS-PS2-3. A-C MS-ETS1-4: B, C AzSS: 8.P1U1.3,5
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students encounter the phenomenon of waves knocking people down, coming to the understanding that waves transfer energy, not matter.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students encounter the phenomenon of waves knocking people down, coming to the understanding that waves transfer energy, not matter.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students encounter the phenomenon of waves knocking people down, coming to the understanding that waves transfer energy, not matter.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5

Name: Kristoffer Van Atten		Grading Quarter: Q3	Week Beginning: January 20, 2025
School Year: 2024 - 25		Subject: 8 <sup>th</sup> Grade Science – Physical Science	
Monday	Notes:	No School – MLK day	
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students perform experiments and investigations on properties of waves	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students perform experiments and investigations on properties of waves	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students perform experiments and investigations on properties of waves	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students perform experiments and investigations on properties of waves	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5

Name: Kristoffer Van Atten		Grading Quarter: Q3	Week Beginning: January 27, 2025
School Year: 2024 - 25		Subject: 8 <sup>th</sup> Grade Science – Physical Science	
Monday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students perform experiments and investigations on properties of waves. Review for assessment	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L1: Wave Properties SWBAT explore mechanical wave properties by modeling mechanical waves using mathematical representations and identifying patterns in data gathered by observing a variety of mechanical waves. Lesson Overview: Students perform a formative assessment on L1	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5

Name: Kristoffer Van Atten		Grading Quarter: Q3	Week Beginning: February 3, 2025
School Year: 2024 - 25		Subject: 8 <sup>th</sup> Grade Science – Physical Science	
Monday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves. Review for lesson check	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves. Lesson Check	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5

Name: Kristoffer Van Atten		Grading Quarter: Q3	Week Beginning: February 10, 2025
School Year: 2024 - 25		Subject: 8 <sup>th</sup> Grade Science – Physical Science	
Monday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves can be reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves. Review for lesson check	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; L2: Mechanical Wave Interactions SWBAT develop and use models to describe that waves can be reflected, absorbed, or transmitted through various materials. Lesson Overview: Students perform experiments and investigations on the interactions of mechanical waves. Lesson Check	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; SWBAT develop and use models to describe the properties of waves and how they interact through reflection, absorption, or transmission through various materials. Lesson Overview: Students review for module test.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M1: Intro to Waves; SWBAT develop and use models to describe the properties of waves and how they interact through reflection, absorption, or transmission through various materials. Lesson Overview: Students complete module test.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Friday		No School (Valentine's Day?)	

Name: Kristoffer Van Atten		Grading Quarter: Q3	Week Beginning: February 17, 2025
School Year: 2024 - 25		Subject: 8 <sup>th</sup> Grade Science – Physical Science	
Monday	Notes:	No School: Presidents' Day	Academic Standards:
Tuesday	Notes:	Objective: AzSci Test Prep SWBAT: Utilize online practice and teacher-led resources to gain content and test-taking strategies needed for doing well on the AzSCI 8 <sup>th</sup> grade test. Lesson Overview: Khan Academy	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Wednesday	Notes:	Objective: AzSci Test Prep SWBAT: Utilize online practice and teacher-led resources to gain content and test-taking strategies needed for doing well on the AzSCI 8 <sup>th</sup> grade test. Lesson Overview: AzSci TestNav PearsonNext Test platform	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Thursday	Notes:	Objective: AzSci Test Prep SWBAT: Utilize online practice and teacher-led resources to gain content and test-taking strategies needed for doing well on the AzSCI 8 <sup>th</sup> grade test. Lesson Overview: Khan Academy and AzSci TestNav PearsonNext Test platform	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Friday	Notes:	Objective: AzSci Test Prep SWBAT: Utilize online practice and teacher-led resources to gain content and test-taking strategies needed for doing well on the AzSCI 8 <sup>th</sup> grade test. Lesson Overview: Khan Academy	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5



Name: Kristoffer Van Atten		Grading Quarter: Q3	Week Beginning: February 24, 2025
School Year: 2024 - 25		Subject: 8 <sup>th</sup> Grade Science – Physical Science	
Monday	Notes:	Objective: AzSci Test Prep SWBAT: Utilize online practice and teacher-led resources to gain content and test-taking strategies needed for doing well on the AzSCI 8 <sup>th</sup> grade test. Lesson Overview: Utilize DnA Renaissance AzSci mimic for Test taking strategies	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Tuesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M2: Light; L1: How Light Travels SWBAT explore light as a wave and develop models to describe how light waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students explore phenomenon of a rainbow, and perform investigations and experiments on how light travels through media and vacuum.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Wednesday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M2: Light; L1: How Light Travels SWBAT explore light as a wave and develop models to describe how light waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students explore phenomenon of a rainbow, and perform investigations and experiments on how light travels through media and vacuum.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Thursday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M2: Light; L1: How Light Travels SWBAT explore light as a wave and develop models to describe how light waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students explore phenomenon of a rainbow, and perform investigations and experiments on how light travels through media and vacuum.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5
Friday	Notes:	Objective: McGraw-Hill Inspire Science Physical Science U2: Understanding Waves; M2: Light; L1: How Light Travels SWBAT explore light as a wave and develop models to describe how light waves are reflected, absorbed, or transmitted through various materials. Lesson Overview: Students explore phenomenon of a rainbow, and perform investigations and experiments on how light travels through media and vacuum.	Academic Standards: NGSS: MS-PS4-1,2 MS-PS4.A AzSS 6.P1U1.1 8.P4U1.3,4 8.P4U2.5