Needwood Middle School
2024-2025
Daily Agenda/Lesson Plan

Teacher(s): Gainous/Pruitt	Date: 10/30 Unit 6 Day 1: Energy Transformation Introduction Notes/Vocabulary Matching
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**2023 Unit 7 Energy Forms and Transformations Notes** **2023 Unit 7 Energy Forms and Transformations Notes** **Unit 6 Energy Tranformation Notes Sheet.docx** **Unit 7 Scrambled Energy Post-its.docx** **Energy post it questions.docx**

Teacher(s): Gainous/Pruitt	Date: 10/31 Unit 6 Make Up Day.
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**Finish all missing assignments**

Teacher(s): Gainous/Pruitt	Date: 11/1 Unit 6 Day 2: Phet Lab Energy Changes
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**2023 Unit 7 Energy Forms and Transformations Notes** **2023 Unit 7 Energy Forms and Transformations Notes** **Unit 6 Energy Tranformation Notes Sheet.docx** **Energy systems phet worksheet.docx**

Teacher(s): Gainous/Pruitt	Date: 11/4 Unit 6 Day 3: Energy Transformation Slideshow (Google Classroom)
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**2023 Unit 7 Energy Forms and Transformations Notes** **2023 Unit 7 Energy Forms and Transformations Notes** Energy Transformation Vocabulary and Practice

Teacher(s): Gainous/Pruitt	Date: 11/5 Unit 6 Day 4: Energy Research Project/Task Cards
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**2023 Unit 7 Energy Forms and Transformations Notes** **2023 Unit 7 Energy Forms and Transformations Notes** Energy Research 2021.docx (Gifted/Advanced Class) Energy Research Rubric Regular Class-Students will complete task cards around the room answering questions on energy transformation

Teacher(s): Gainous/Pruitt	Date: 11/6 Unit 6 Day 5: Energy Research Continued
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**2023 Unit 7 Energy Forms and Transformations Notes** **2023 Unit 7 Energy Forms and Transformations Notes** Energy Research 2021.docx (Gifted/Advanced) Regular Class- Energy Transformation Sorting

Teacher(s): Gainous/Pruitt	Date: 11/7 Unit 6 Day 6: Achieve, “Boat Race Makes Waves”
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**Achieve, “Boat Race Makes Waves”** **BrainPop Forms of Energy** Finish any missing assignments

Teacher(s): Gainous/Pruitt	Date: 11/8 Unit 6 Day 7: Kesler Lab
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**Kesler Labs**

Teacher(s): Gainous/Pruitt	Date: 11/12 Unit 6 Day 8: Make Up Day
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g.,

	lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**Make Up Day**

Teacher(s): Gainous/Pruitt	Date: 11/13 Unit 6 Day 8: Student Lab
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.

Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**Student Lab**

Teacher(s): Gainous/Pruitt	Date: 11/14 Unit 6 Day 9: Study Guide/Review
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence

	☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	Study Guide Escape Room Energy Forms

Teacher(s): Gainous/Pruitt	Date: 11/15 Unit 6 Day 10: Test
Standards:	S8P2c Obtain, evaluate, and communicate information about the law of conservation of energy to develop arguments that energy can transform from one form to another within a System. c. Construct an argument to support a claim about the type of energy transformations within a system [e.g., lighting a match (light to heat), turning on a light (electrical to light)].
Learning Target:	I am learning the different forms that energy takes, so that I can recognize the types of energy during various transformations.
Success Criteria:	☐ List at least 8 forms of energy and describe them as either potential or kinetic (can be a graphic organizer) ☐ Define each type of energy in less than six words ☐ Prove which types of energy are involved in any given transformation based on observations or evidence ☐ Add and subtract to determine the amount of energy in a system
Activity(ies)/Assignment with Text and/or Links:	**Unify Test Unit 6**