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| Grade Level 8 | Teacher/Room: Christina Scales/ 149 Week of: April 25, 2016 | |
| Unit Vocabulary Milestone Review | | |
| Monday 4-25-16 | | |
| <p>CC Standard</p> <p>S8P4. Students will explore the wave nature of sound and electromagnetic radiation.</p> <p>a. Identify the characteristics of electromagnetic and mechanical waves.</p> <p>b. Describe how the behavior of light waves is manipulated causing reflection, refraction diffraction, and absorption.</p> <p>c. Explain how the human eye sees objects and colors in terms of wavelengths.</p> <p>d. Describe how the behavior of waves is affected by medium (such as air, water, solids).</p> <p>e. Relate the properties of sound to everyday experiences.</p> <p>f. Diagram the parts of the wave and explain how the parts are affected by changes in amplitude and pitch.</p> | | |
| | Science | STEM |
| Instructional Strategies/ Resources Used: | Instructional game/peer collaboration | Instructional game/peer collaboration |
| Learning Target | I can explain the characteristics of electromagnetic and mechanical waves. | I can explain the characteristics of electromagnetic and mechanical waves. |
| Activating: | Mechanical and EM Waves http://www.bing.com/videos/search?q=mechanical+and+em+waves+video&adlt=strict&qpv=mechanical+and+em+waves+video&view=detail&mid=CC43AE8DD4957F7453BECC43AE8DD4957F7453BE&FORM=VRD GAR | Mechanical and EM Waves http://www.bing.com/videos/search?q=mechanical+and+em+waves+video&adlt=strict&qpv=mechanical+and+em+waves+video&view=detail&mid=CC43AE8DD4957F7453BEC43AE8DD4957F7453BE&FORM=VRD GAR |
| Class Activity: | <ol style="list-style-type: none"> 1. Review power point Milestone Review Questions 2. Construct 3 Waves Cootie Catchers. 3. Students will then play game with a partner. | <ol style="list-style-type: none"> 1. Review power point Milestone Review Questions 2. Construct 3 Waves Cootie Catchers. 3. will then play game with a partner |

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| Assessment | Observation of student answers during game | Observation of student answers during game |
| Homework: | | |
| Differentiation: | Peer groups | |
| Tuesday 4/26/16 (Milestone Testing in Morning) | | |
| <p>CC Standard</p> <p>S8P4. Students will explore the wave nature of sound and electromagnetic radiation.</p> <p>a. Identify the characteristics of electromagnetic and mechanical waves.</p> <p>b. Describe how the behavior of light waves is manipulated causing reflection, refraction diffraction, and absorption.</p> <p>c. Explain how the human eye sees objects and colors in terms of wavelengths.</p> <p>d. Describe how the behavior of waves is affected by medium (such as air, water, solids).</p> <p>e. Relate the properties of sound to everyday experiences.</p> <p>f. Diagram the parts of the wave and explain how the parts are affected by changes in amplitude and pitch.</p> | | |
| | Science 1 st , 2 nd , 3 rd Block | Stem 4 th Block |
| Instructional Strategies/ Resources Used: | Instructional Games/make a model | Instructional Games/making a model |
| Learning Target | I can identify the different forms of energy. | I can identify the different forms of energy. |
| Different types of energy | EM Waves https://www.youtube.com/watch?v=WNk8IY-k04 | EM Waves https://www.youtube.com/watch?v=WNk8IY-k04 |
| Class Activity | <ol style="list-style-type: none"> 1. Review Powerpoint Milestone Questions 2. Play Around the Room Trivia Question Game to review waves | <ol style="list-style-type: none"> 1. Review Powerpoint Milestone Questions 2. Play Around the Room Trivia Question Game to review waves |
| Homework: | | |
| Differentiation: | Peer partners | |

| Wednesday 4/27/16 (Milestone Testing in Morning) | | |
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| CC Standard S8P5. Students will recognize characteristics of gravity, electricity, and magnetism as major kinds of forces acting in nature. a. Recognize that every object exerts gravitational force on every other object and that the force exerted depends on how much mass the objects have and how far apart they are. b. Demonstrate the advantages and disadvantages of series and parallel circuits and how they transfer energy. c. Investigate and explain that electric currents and magnets can exert force on each other. | | |
| | Science 1 st , 2 nd , 3 rd , Block | Stem 4 th Block |
| Instructional Strategies/ Resources Used: | Instructional game/peer collaboration | Instructional game/peer collaboration |
| Learning Target | I can explain current and magnets | I can explain currents and magnets |
| Activating: | Parallel and Series Circuit http://www.bing.com/videos/search?q=parrallel+and+series+circuits+video&view=detail&mid=E054860ED074160CF8CAE054860ED074160CF8CA&FORM=VIRE | Parallel and Series Circuit http://www.bing.com/videos/search?q=parrallel+and+series+circuits+video&view=detail&mid=E054860ED074160CF8CAE054860ED074160CF8CA&FORM=VIRE |
| Class Activity: | 1. Review Powerpoint Milestone Questions 2. Play Around the Room Trivia Question Game to review waves | 1. Review Powerpoint Milestone Questions 2. Play Around the Room Trivia Question Game to review waves |
| Assessment: | Trivia answers | Trivia Answers |
| Homework: | | |
| Differentiation: | | |
| Thursday 4/28/16 (Milestone Testing in Morning) | | |
| CC Standard S8P5. Students will recognize characteristics of gravity, electricity, and magnetism as major kinds of forces acting in nature. a. Recognize that every object exerts gravitational force on every other object and that the force exerted depends on how much mass the objects have and how far apart they are. | | |
| | Science 1 st , 2 nd , 3 rd Block | Stem 4 th Block |

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| Instructional Strategies/ Resources Used: | Student technology | Student technology |
| Learning Target | I can demonstrate an understanding of electric circuits and magnetism. | I can demonstrate an understanding of electric circuits and magnetism. |
| Activating: | | |
| Class Activity: | 1. Ipads—Study Island | 1. Ipads—Study Island |
| Assessment: | Study Island results | Study Island results |
| Homework: | | |
| Differentiation: | | |
| Friday 4/29/16 (Milestone Testing in Morning) | | |
| <p>S8CS1. Students will explore the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.</p> <p>a. Understand the importance of—and keep—honest, clear, and accurate records in science.</p> <p>b. Understand that hypotheses can be valuable even if they turn out not to be completely accurate.</p> <p>S8CS3. Students will have the computation and estimation skills necessary for analyzing data and following scientific explanations.</p> <p>a. Analyze scientific data by using, interpreting, and comparing numbers in several equivalent forms, such as integers, fractions, decimals, and percents.</p> <p>b. Find the mean, median, and mode and use them to analyze a set of scientific data.</p> <p>c. Apply the metric system to scientific investigations that include metric to metric conversions (i.e., centimeters to meters).</p> <p>d. Decide what degree of precision is adequate, and round off appropriately.</p> <p>e. Address the relationship between accuracy and precision.</p> <p>f. Use ratios and proportions, including constant rates, in appropriate problems.</p> | | |
| | Science 1 st Block | Stem 4 th Block |
| Instructional Strategies/ Resources Used: | exploration/art/group work/technology | Direct instruction/art/group work |
| Learning Target | I can collect data and display it. | I can collect data and display it. |
| Activating: | Hatching Ducks http://www.bing.com/videos/search?q=care+of+ducklings+video&view=detail&mid=EB321477CB264AC39F73EB321477CB264AC39F73&FORM=VIRE | Hatching Ducks http://www.bing.com/videos/search?q=care+of+ducklings+video&view=detail&mid=EB321477CB264AC39F73EB321477CB264AC39F73&FORM=VIRE |

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| Class Activity: | <ol style="list-style-type: none"> 1. Introduce our project on ducks. 2. Design a cover for a data booklet, 3. Create calendar to monitor days to eggs hatch. 4. Weigh and candle eggs and log data results. 5. Using internet, investigate the breed of ducks that match the eggs. | <ol style="list-style-type: none"> 1. Introduce our project on ducks. 2. Design a cover for a data booklet, 3. Create calendar to monitor days to eggs hatch. 4. Weigh and candle eggs and log data results. |
| Assessment: | Data collection book | Data Collection book |
| Homework: | | |
| Differentiation: | | |