

Pickens High School Lesson Planning Template

Grade Level: 9					Teacher/Room: McCoy / 188					Course(s)/ Period(s): Physical Science / 1, 2, 4					Week of: 4/13-17/2015				
Unit Vocabulary: heat transfer, conduction, radiation, convection, phase change, triple point graph, specific heat, phase change, triple point graph, sublimation, Boyles Law, Charles' Law, Kinetic Energy New Vocab-displacement, speed, average speed, instantaneous speed, velocity, acceleration, force, net force, balanced force, inertia, gravity, momentum, weight, kinetic energy, joule, potential energy, chemical potential energy, gravitational potential energy, mechanical energy, law of conservation of energy																			
Instructional Strategies Used: technology, group activities, \$2 summaries, direct instruction, manipulatives																			
Day 1				Day 2				Day 3				Day 4				Day 5			
Common Core Standard(s): SPS5. Phases of matter as they relate to atomic and molecular motion. a. Compare and contrast the atomic/molecular motion of solids, liquids, gases and plasmas. b. Relate temperature, pressure, and volume of gases to the behavior of gases. ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting. ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.				Common Core Standard(s) SPS2 students will explore the nature of matter, its classifications, and its system for naming types of matter. ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting. ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.				Common Core Standard(s): SPS7. Students will relate transformations and flow of energy within a system. a. Identify energy transformations within a system (e.g. lighting of a match). ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting. ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.				Common Core Standard(s): ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting. ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.				Common Core Standard(s): SPS8. Students will determine relationships among force, mass, and motion. a. Calculate velocity and acceleration. b. Apply Newton's three laws to everyday situations by explaining the following: Inertia Relationship between force, mass and acceleration Equal and opposite forces c. Relate falling objects to gravitational force d. Explain the difference in mass and weight. ELPS 1 English language learners communicate for Social and Instructional purposes within the school setting. ELPS 4 English language learners communicate information, ideas and concepts necessary for academic success in the content area of Science.			
Essential Question: Why does a balloon pop when you squeeze it?				Essential Question: What are the types of energy and what are energy conversion?				Essential Question: What are the types of energy and what are energy conversion?				Essential Question: test				Essential Question: What are Newton's Laws?			
Mini Lesson: • Specific Heat Lesson Review Activating Strategies: • see below Lesson: • its a gas ppt				Mini Lesson: • Introduce Types of Energy Activating Strategies: • Kahoot Lesson: • Frayer Model Handouts				Mini Lesson: • Introduce Types of Energy Activating Strategies: • http://www.youtube.com/watch?v=_uLSFigtLKg Lesson: • Energy Card Activity				Mini Lesson: • review activity for test Activating Strategies: • Kahoot Lesson: • test				Mini Lesson: • Newton's Laws Foldable Activating Strategies: • https://www.youtube.com/watch?v=okCCGxWs_L8 http://www.youtube.com/watch?v=MKTA7AAq00 Lesson: • Newton's Laws			

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Resource/Materials: <ul style="list-style-type: none"> • Handouts 	Resource/Materials: <ul style="list-style-type: none"> • Handouts 	Resource/Materials: <ul style="list-style-type: none"> • Computer, LCD, handouts 	Resource/Materials: <ul style="list-style-type: none"> • computers • handouts 	Resource/Materials: <ul style="list-style-type: none"> • paper • scissors
Differentiation: Content/Process/Product: <ul style="list-style-type: none"> • direct instruction Grouping Strategy: <ul style="list-style-type: none"> • Assessment: <ul style="list-style-type: none"> • \$2 Summary ticket out the door 	Differentiation: Content/Process/Product: <ul style="list-style-type: none"> • process-Frayer Model for Vocab Grouping Strategy: <ul style="list-style-type: none"> • student centered Assessment: <ul style="list-style-type: none"> • 	Differentiation: Content/Process/Product: <ul style="list-style-type: none"> • process-manipulative Grouping Strategy: <ul style="list-style-type: none"> • flexible grouping Assessment: <ul style="list-style-type: none"> • 	Differentiation: Content/Process/Product: <ul style="list-style-type: none"> • ESL students will be given the Spanish version of the test. Grouping Strategy: <ul style="list-style-type: none"> • student centered Assessment: <ul style="list-style-type: none"> • 	Differentiation: Content/Process/Product: <ul style="list-style-type: none"> • product-Focused Learning Grouping Strategy: <ul style="list-style-type: none"> • student centered Assessment: <ul style="list-style-type: none"> •
Assessment : Pre-Test: Post-Test: Formative: handouts Summative: Performance Based:	Assessment : Pre-Test: Post-Test: Formative: lab report Summative: Performance Based:	Assessment : Pre-Test: Post-Test: Formative: Summative: Performance Based:	Assessment : Pre-Test: Post-Test: Formative: Summative: test Performance Based:	Assessment : Pre-Test: Post-Test: Formative: foldable Summative: Performance Based:
Homework: questions from the section in book	Homework: questions from the section in book	Homework: study for test	Homework: new vocab	Homework: finish foldable

Resources and Reflective Notes:
<http://www.youtube.com/watch?v=kx-AQ3Q9i7A>
<https://www.youtube.com/watch?v=NplVuTrr59U>
<https://www.youtube.com/watch?v=eYeRA--Xq0E>
https://www.youtube.com/watch?v=bWhs5L_gBTI
<https://www.youtube.com/watch?v=ULdmv-iPQvA>