

FREE PACING GUIDE FOURTH GRADE

ELA STANDARDS

Week	ELA Standards		Foundational Skills	Language
1 (10)	<p>SL.4.4 Compare and contrast the point of view from which different stories are narrated, including the difference between first- and third-person narrations.</p> <p>Point of View Unit</p> 	<p>*SL Standards are taught explicitly during Quarter 1. They should be integrated/applied in all Quarter lessons and class discussions. Focus SL Standards for the Quarter 2 are listed below.</p> <p>SL.4.1C Pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.</p> <p>SL.4.1D Revise the key ideas expressed and explain their own ideas and understanding in light of the discussion.</p> <p>SL.4.2 Paraphrase portions of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.</p>	<p>*RF Standards are taught explicitly during Quarter 1. They should be integrated/applied in all Quarter lessons and class discussions.</p> <p>RF.4.3 Know and apply grade-level phonics and word analysis skills in decoding words.</p> <p>RF.4.3A Use combined knowledge of all letters-sound correspondences, syllabication patterns, and morphology (e.g., roots and affixes) to read accurately unfamiliar multisyllabic words in context and out of context.</p> <p>RF.4.4 Read with sufficient accuracy and fluency to support comprehension.</p> <p>RF.4.4A Read grade-level text with purpose and understanding.</p> <p>RF.4.4B Read grade-level prose and poetry orally with accuracy, appropriate rate, and expression on successive readings.</p> <p>RF.4.4C Use context to confirm, or self-correct word recognition and understanding, rereading as necessary.</p> <p>Reading Foundations Skills Unit</p> 	<p>L.4.4B Use common, or appropriate Greek and Latin affixes and roots to the meaning of a word (e.g., telegraph, photograph, auto).</p> <p>Greek & Latin Roots Unit</p> 
2 (11)	<p>SL.4.5 Explain major differences between poems, drama, and prose, and refer to the structural elements of poems (e.g., verse, rhythm, meter) and drama (e.g., casts of characters, settings, descriptions, dialogue, stage directions) when writing or speaking about a text.</p> <p>Poetry, Prose & Drama Unit</p> 			<p>L.4.5C Demonstrate understanding of words by relating their opposites (antonyms) and to words with similar identical meanings (synonyms).</p> <p>Synonyms & Antonyms Unit</p>
3 (12)				
4 (13)	<p>SL.4.4 Compare and contrast a firsthand and secondhand account of the same event or topic; describe the differences in focus and the information provided.</p> <p>Extend Secondhand Accounts Unit</p> 	<p>SL.4.2 Identify the reasons and evidence a speaker provides to support particular points.</p> <p>SL.4.5 (NEW) Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes.</p> <p>Science & Literature Unit</p> 	<p>SL.4.2 Identify the reasons and evidence a speaker provides to support particular points.</p> <p>SL.4.5 (NEW) Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes.</p> <p>Science & Literature Unit</p> 	<p>L.4.5A Explain the meaning of simple similes and metaphors (e.g., as a picture) in context.</p> <p>Metaphor Unit</p> 

4th Grade Treasures Pacing Guide Ohio

Jessica J Manson



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web the ballistic pendulum physics 110 laboratory in this experiment you will determine the muzzle velocity of a gun using two different methods the first method consists of firing a ball horizontally from the tabletop by measuring the range of the ball

in the second part of the experiment the ball will be red into the ballistic pendulum shown above and

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web experiment 8 ballistic pendulum objective to use a ballistic pendulum to determine the velocity of a projectile to verify this velocity by measuring the range of the projectile experiment we use measurements obtained from a ballistic pendulum to review energy conservation momentum conservation and projectile motion

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able establish the ball's velocity by shooting a ball inside a pendulum bob and then how the bob's motion using the core a conservation of momentum and conservation of mechanical energy

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web the ballistic pendulum measures the velocity of projectiles through the conservation of linear momentum and mechanical energy in this experiment we can determine the initial velocities of the projectile motion by measuring the distance on which the center of mass of the projectile rises through the law of conservation of linear momentum and

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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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web 1 introduction in the ballistic pendulum experiment a small ball is shot from a launcher into a barrel at the end of rigid arm pendulum the ball lodges itself in the barrel and they swing together up to some maximum height energy is not conserved in the completely inelastic collision but linear momentum is

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web this paper presents the implementation of a physical pendulum for the physics laboratory using mainly a bar and a disc mounted on it which can be moved along this bar using implements such as a flexometer to measure the different lengths and a stopwatch to take the oscillation period of the pendulum

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web lab 12 ballistic pendulum experimental objectives to verify that the equations of conservation of momentum and

conservation of mechanical energy give the same results as the equations of two dimensional motion by comparing the initial velocity the muzzle velocity of the ballistic projectile from two different sets of experimental measurements

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and projectile launcher with the rotary motion sensor see image 2 3 3 measure the mass of the pendulum and the projectile as well as the length of the pendulum 4 prepare data studio for the experiment 5

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web theory a ballistic pendulum is a device that can be used to measure the speed of projectiles using both conservation of momentum and conservation of energy it contains a swinging pendulum and a spring gun the gun shoots out the projectile ball bearing into the bob creating an inelastic collision