

	Monday	Tuesday	Wednesday	Thursday
Unit/ Lesson Big Ideas	Unit 2 : Energy and Momentum Energy and momentum are conserved in all interactions. Interactions involving the laws of conservation of energy and conservation of momentum can be analyzed mathematically. Technological applications that involve energy and momentum can affect society and the environment in positive and negative ways.	Unit 2: Energy and Momentum Energy and momentum are conserved in all interactions. Interactions involving the laws of conservation of energy and conservation of momentum can be analyzed mathematically. Technological applications that involve energy and momentum can affect society and the environment in positive and negative ways.	Unit 2: Energy and Momentum Energy and momentum are conserved in all interactions. Interactions involving the laws of conservation of energy and conservation of momentum can be analyzed mathematically. Technological applications that involve energy and momentum can affect society and the environment in positive and negative ways.	Unit2: Energy and Momentum Energy and momentum are conserved in all interaction Interactions involving the laws of conservation of energy and conservation of momentum can be analyzed mathematically. Technological applications that involve energy and momentum can affect society and the environment in positive and negative ways.
Overall Expectations	C2. investigate, in qualitative and quantitative terms, through laboratory inquiry or computer simulation, the relationship between the laws of conservation of energy and conservation of momentum, and solve related problems;	C2. investigate, in qualitative and quantitative terms, through laboratory inquiry or computer simulation, the relationship between the laws of conservation of energy and conservation of momentum, and solve related problems; ;	C2. investigate, in qualitative and quantitative terms, through laboratory inquiry or computer simulation, the relationship between the laws of conservation of energy and conservation of momentum, and solve related problems;	C2. investigate, in qualitative and quantitative terms, through laboratory inquiry or computer simulation, the relationship between the laws of conservation of energy and conservation of momentum, and solve related problems;
Specific Expectations	C2.1 use appropriate terminology related to energy and momentum, including, but not limited to: work, work–energy theorem, kinetic energy, gravitational potential energy, elastic potential energy, thermal energy, impulse, change in momentum–impulse theorem, elastic collision, and inelastic collision [C	C2.1 use appropriate terminology related to energy and momentum, including, but not limited to: work, work–energy theorem, kinetic energy, gravitational potential energy, elastic potential energy, thermal energy, impulse, change in momentum–impulse theorem, elastic collision, and inelastic collision [C	C3.5explain how the laws of conservation of energy and conservation of momentum were used to predict the existence and properties of the neutrino	C3.3 distinguish between elastic and inelastic collisions
Learning Goals	Work Energy (Kinetic Energy) Work Energy Theorem	Students will write a test on Circular Motion	Gravitational potential energy law of conservation of energy Power	Elastic Potential Energy Simple harmonic motion
Success Criteria				
Instructional Strategies	Lecture on work, energy and work-energy theorem. Examples will be analyzed and solved	Test (Circular Motion)	Lecture on the topics mentioned in the learning goals. Examples will be analyzed and solved	Lecture on Elastic potential energy and simple harmonic motion. Examples will be analyzed and related problems will be solved.
Assessment & Evaluation	Class Work	Test [AOL]	Class work	Class work
Homework / Class Work	Class Work pages 167, 169 and 175 textbook	Class Work on practice questions pages 180 and 187 textbook.	Class Work on practice questions pages 180 and 187 textbook.	Class Work on practice questions 1–5 on pages 205 textbook.

Materials & Resources	Nelson Physics 12 [Textbook]	Nelson Physics 12 [Textbook]	Nelson Physics 12 [Textbook]	Nelson Physics 12 [Textbook]
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