

2018 Mississippi College- and Career-Readiness Standards for Science

Book: Conceptual Physics, ©2022

**Physics Standards
Total Standards: 9**

Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
PHY.1 One-Dimensional Motion	Linear motion of objects is described by displacement, velocity, and acceleration. These concepts should be introduced as computational and investigative phenomena.	PHY.1 Students will investigate and understand how to analyze and interpret data.	PHY.1.1 Investigate and analyze evidence gained through observation or experimental design regarding the one-dimensional (1-D) motion of objects. Design and conduct experiments to generate and interpret graphical evidence of distance, velocity, and acceleration through motion.	<p>Partial coverage: Students learn about the concepts of velocity and acceleration and conduct experiments, but they do not generate and interpret graphical evidence.</p> <p>Chapter 3: Linear Motion 3.2 Velocity 3.3 Acceleration</p> <p>Chapter 3 Review: Think and Do (Hands-On Applications) Q 30, 31</p>
			PHY.1.2 Interpret and predict 1-D motion based on displacement vs. time, velocity vs. time, or acceleration vs. time graphs (e.g., free-falling objects).	<p>Partial coverage: Students learn about free-falling objects but do not interpret and predict linear motion based on graphs.</p> <p>Chapter 3: Linear Motion 3.4 Free Fall</p>
			PHY.1.3 Use mathematical and computational analysis to solve	Chapter 3: Linear Motion 3.4 Free Fall

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			problems using kinematic equations.	Chapter 3 Review: Plug and Chug (Equation Familiarization) Q 37-40 Chapter 3 Review: Think and Solve (Mathematical Application) Q 41-44
			PHY.1.4 Use graphical analysis to derive kinematic equations.	The text does not cover this objective.
			PHY.1.5 Differentiate and give examples of motion concepts such as distance-displacement, speed-velocity, and acceleration.	Chapter 3: Linear Motion 3.5 Velocity Vectors Chapter 3 Review: Think and Solve (Mathematical Application) Q 45-49 Chapter 3 Review: Think and Discuss (Evaluation) Q 78-79, 82-84
			PHY.1.6 Design and mathematically/graphically analyze quantitative data to explore displacement,	The text does not cover this objective.

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			velocity, and acceleration of various objects. Use probe systems, video analysis, graphical analysis software, digital spreadsheets, and/or online simulations.	
			PHY.1.7 Design different scenarios, and predict graph shapes for distance/time, velocity/time, and acceleration/time graphs.	The text does not cover this objective.
			PHY.1.8 Given a 1D motion graph students should replicate the motion predicted by the graph.	The text does not cover this objective.
PHY.2 Newton's Laws	Motion and acceleration can be explained by analyzing the contact interaction of objects. This motion and acceleration can be predicted by analyzing the forces (i.e., normal, tension, gravitational, applied, and frictional) acting on the	PHY.2 Students will develop an understanding of concepts related to Newtonian dynamics.	PHY.2.1 Identify forces acting on a system by applying Newton's laws mathematically and graphically (e.g., vector and scalar quantities).	Chapter 4: Newton's Second Law of Motion 4.1 Forces 4.2 Friction 4.3 Mass and Weight 4.4 Newton's Second Law of Motion 4.5 When Acceleration is g – Free Fall 4.6 When Acceleration is Less Than g – Nonfree Fall

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	object and applying Newton's laws of motion.			Chapter 4 Review: Think and Explain (Synthesis) Q 57, 60, 73, 74
			PHY.2.2 Use models such as free-body diagrams to explain and predict the motion of an object according to Newton's law of motion, including circular motion.	Chapter 4: Newton's Second Law of Motion 4.3 Mass and Weight 4.4 Newton's Second Law of Motion 4.5 When Acceleration is g – Free Fall 4.6 When Acceleration is Less Than g – Nonfree Fall Chapter 8: Rotational Motion 8.1 Circular Motion 8.2 Centripetal Force 8.3 Centrifugal Force 8.4 Rotational Inertia
			PHY.2.3 Use mathematical and graphical techniques to solve vector problems and find net forces acting on a body using free-body diagrams and/or online simulations.	Partial coverage: Students do not use diagrams or online simulations while solving problems related to this objective. Chapter 2: Newton's First Law of Motion-Inertia 2.4 Net Forces and Vectors 2.5 The Equilibrium Rule

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				<p>Chapter 2 Review: Reading Check Questions (Comprehension) Q 10-13</p> <p>Chapter 2 Review: Think and Solve (Mathematical Application) Q 30, 31</p> <p>Chapter 4: Newton’s Second Law of Motion Chapter 4 Review: Reading Check Questions Q 22, 25, 26</p> <p>Chapter 4 Review: Think and Explain (Synthesis) Q 73, 74, 75, 83, 87, 89</p> <p>Chapter 4 Review: Think and Discuss (Evaluation) Q 113</p>
			PHY.2.4 Use vectors and mathematical analysis to explore	Chapter 10: Projectile and Satellite Motion

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			the 2D motion of objects. (i.e. projectile and circular motion).	10.1 Projectile Motion 10.2 Fast-Moving Projectiles-Satellites 10.3 Circular Satellite Orbits Chapter 10 Review: Think and Explain (Synthesis) Q 45, 46, 47
			PHY.2.5 Use mathematical and computational analysis to derive simple equations of motion for various systems using Newton’s second law (e.g. net force equations).	The text does not cover this objective.
			PHY.2.6 Use mathematical and computational analysis to explore forces (e.g., friction, force applied, normal, and tension).	Chapter 4: Newton’s Second Law of Motion 4.1 Forces 4.2 Friction 4.3 Mass and Weight Chapter 4 Review: Think and Solve (Mathematical Application) Q 40, 41, 47, 50, 51 Chapter 4 Review: Think and Discuss (Evaluation)

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Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
				Q 102, 103, 106, 109, 110
			PHY.2.7 Analyze real-world applications to draw conclusions about Newton’s three laws of motion using online simulations, probe systems, and/or laboratory experiences.	The text does not cover this objective.
			PHY.2.8 Design an experiment to determine the forces acting on a stationary object on an inclined plane. Test your conclusions.	The text does not cover this objective.
			PHY.2.9 Draw diagrams of forces applied to an object, and predict the angle of incline that will result in unbalanced forces acting on the object.	The text does not cover this objective.
			PHY.2.10 Apply the effects of the universal gravitation law to generate a digital/physical graph, and interpret the forces between two masses, acceleration due to gravity, and planetary motion (e.g., situations where g is constant, as in falling bodies).	The text does not cover this objective.

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Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
			PHY.2.11 Explain centripetal acceleration while undergoing uniform circular motion to explore Kepler’s third law using online simulations, models, and/or probe systems.	Chapter 10: Projectile and Satellite Motion 10.3 Circular Satellite Orbits 10.5 Kepler’s Laws of Planetary Motion Chapter 10 Review: Reading Check Questions (Comprehension) Q 13 Chapter 10 Review: Think and Explain (Synthesis) Q 53, 59
PHY.3 Work and Energy	Work and energy are synonymous. When investigating mechanical energy, energy is the ability to do work. The rate at which work is done is called power. Efficiency is the ratio of power input to the output of the system. In closed systems, energy is conserved.	PHY.3 Students will develop an understanding of concepts related to work and energy.	PHY.3.1 Use mathematical and computational analysis to qualitatively and quantitatively analyze the concept of work, energy, and power to explain and apply the conservation of energy.	Chapter 7: Energy 7.1 Work 7.2 Power 7.3 Potential Energy 7.4 Kinetic Energy 7.6 Conservation of Energy Chapter 7 Review: Plug and Chug (Equation Familiarization) Q 39, 40, 43 Chapter 7 Review: Think and Solve (Mathematical Application)

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				Q 49, 50, 51, 55, 56 Chapter 7 Review: Think and Explain (Synthesis) Q 62, 64, 65, 66, 69, 71, 74, 75, 76, 93
			PHY.3.2 Use mathematical and computational analysis to explore conservation of momentum and impulse.	Chapter 6: Momentum 6.1 Momentum 6.2 Impulse 6.5 Conservation of Momentum Chapter 6 Review: Reading Check Questions (Comprehension) Q 14-17 Chapter 6 Review: Plug and Chug (Equation Familiarization) Q 36, 37 Chapter 6 Review: Think and Solve (Mathematical Application) Q 45
			PHY.3.3 Through real-world applications, draw conclusions about mechanical potential	Chapter 7: Energy 7.3 Potential Energy 7.4 Kinetic Energy

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Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
			energy and kinetic energy using online simulations and/or laboratory experiences.	Chapter 7 Review: Think and Explain (Synthesis) Q 61, 76, 77
			PHY.3.4 Design and conduct investigations to compare conservation of momentum and conservation of kinetic energy in perfectly inelastic and elastic collisions using probe systems, online simulations, and/or laboratory experiences.	The text does not cover this objective.
			PHY.3.5 Investigate, collect data, and summarize the principles of thermodynamics by exploring how heat energy is transferred from higher temperature to lower temperature until equilibrium is reached.	Chapter 18: Thermodynamics 18.5 Second Law of Thermodynamics Chapter 18 Review: Think and Do (Hands-On Applications) Q 32
			PHY.3.6 Enrichment: Design, conduct, and communicate investigations that explore how temperature and thermal energy	Chapter 18: Thermodynamics 18.5 Second Law of Thermodynamics Chapter 18 Review: Think and Do (Hands-On Applications)

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Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
			relate to molecular motion and states of matter.	Q 32
			PHY.3.7 Enrichment: Use mathematical and computational analysis to analyze problems involving specific heat and heat capacity.	Chapter 15: Temperature, Heat, and Expansion 15.3 Specific Heat Capacity Chapter 15 Review: Think and Solve (Mathematical Application) Q 33-35
			PHY.3.8 Enrichment: Research to compare the first and second laws of thermodynamics as related to heat engines, refrigerators, and thermal efficiency.	Partial coverage: Students do not conduct research on this topic. Chapter 18: Thermodynamics Chapter 18 Review: Think and Solve (Mathematical Application) Q 41 Chapter 18 Review: Think and Discuss (Evaluation) Q 79, 80, 88
			PHY.3.9 Explore the kinetic theory in terms of kinetic energy of ideal gases using digital resources.	The text does not cover this objective.

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Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
			PHY.3.10 Enrichment: Research the efficiency of everyday machines (e.g., automobiles, hair dryers, refrigerators, and washing machines).	Partial coverage: Students do not conduct research to answer these questions. Chapter 18: Thermodynamics 18.5 Second Law of Thermodynamics Chapter 18 Review: Think and Discuss (Evaluation) Q 79, 80
			PHY.3.11 Enrichment: Use an engineering design process to design and build a themed Rube Goldberg-type machine that has six or more steps and complete a desired task (e.g., pop a balloon, fill a bottle, shoot a projectile, or raise an object 35 cm) within an allotted time. Include a poster that demonstrates the calculations of the energy transformation or efficiency of the machine.*	The text does not cover this objective.

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PHY.4 Waves	Wave properties are the transfer of energy from one place to another. The investigation of these interactions must include simple harmonic motion, sound, and electromagnetic radiation.	PHY.4 Students will investigate and explore wave properties.	PHY.4.1 Analyze the characteristics and properties of simple harmonic motions, sound, and light.	<p>Chapter 19: Vibrations and Waves 19.1 Good Vibrations (Vibration of a Pendulum – SHM) 19.2 Wave Description 19.3 Wave Motion 19.4 Wave Speed 19.5 Wave Interference</p> <p>Chapter 19 Review: Think and Discuss (Evaluation) Q 51, 54-57, 61, 63, 64, 67</p> <p>Chapter 20: Sound 20.2 Sound in Air 20.3 Reflection of Sound 20.4 Refraction of Sound 20.5 Forced Vibrations 20.6 Resonance 20.7 Interference</p> <p>Chapter 20 Review: Think and Discuss (Evaluation) Q 51, 52, 54, 57, 58, 60, 61, 63, 66, 74,</p> <p>Chapter 26: Properties of Light</p>

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Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
				26.2 Electromagnetic Wave Velocity Chapter 26 Review: Think and Discuss (Evaluation) Q 46, 47, 50, 63
			PHY.4.2 Describe and model through digital or physical means the characteristics and properties of mechanical waves by simulating and investigating properties of simple harmonic motion.	Chapter 19: Vibrations and Waves Chapter 19 Review: Think and Do (Hands-On Applications) Q 32
			PHY.4.3 Use mathematical and computational analysis to explore wave characteristics (e.g., velocity, period, frequency, amplitude, phase, and wavelength).	Chapter 19: Vibrations and Waves Chapter 19 Review: Think and Solve (Mathematical Application) Q 39, 41, 42 Chapter 20: Sound Chapter 20 Review: Think and Solve (Mathematical Application) Q 35, 36, 40, 41 Chapter 26: Properties of Light Chapter 26 Review: Think and Solve (Mathematical Application)

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Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
				Q 37-39
			PHY.4.4 Investigate and communicate the relationship between the energy of a wave in terms of amplitude and frequency using probe systems, online simulations, and/or laboratory experiences.	The text does not cover this objective.
			PHY.4.5 Design, investigate, and collect data on standing waves and waves in specific media (e.g., stretched string, water surface, and air) using online simulations, probe systems, and/or laboratory experiences.	Chapter 19: Vibrations and Waves Chapter 19 Review: Think and Do (Hands-On Applications) Q 31
			PHY.4.6 Explore and explain the Doppler effect as it relates to a moving source and to a moving observer using online simulations, probe systems, and/or real-world experiences.	Chapter 19: Vibrations and Waves 19.6 Doppler Effect Chapter 19 Review: Think and Explain (Synthesis) Q 72-76
			PHY.4.7 Explain the laws of reflection and refraction, and apply Snell's law to describe the	Chapter 28: Reflection and Refraction 28.2 Law of Reflection 28.3 Refraction 28.5 Dispersion

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			relationship between the angles of incidence and refraction.	Chapter 28 Review: Reading Check Questions (Comprehension) Q 4, 8, 9, 11, 12, 16
			PHY.4.8 Use ray diagrams and the thin lens equations to solve real-world problems involving object distance from lenses, using a lens bench, online simulations, and/or laboratory experiences.	Chapter 28: Reflection and Refraction Chapter 28 Review: Think and Solve (Mathematical Application) Q 38 Chapter 28 Review: Think and Explain (Synthesis) Q 80
			PHY.4.9 Research the different bands of electromagnetic radiation, including characteristics, properties, and similarities/differences.	Partial coverage: Students do not conduct research on this topic. Chapter 26: Properties of Light 26.3 The Electromagnetic Spectrum Chapter 26 Review: Think and Explain (Synthesis) Q 48, 51, 52, 53, 54, 56, 57, 58, 60, 61
			PHY.4.10 Enrichment: Research the ways absorption and emission spectra are used to	Partial coverage: Students do not conduct research on this topic. Chapter 30: Light Emission

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Disciplinary Core Idea	Conceptual Understanding	Content Standard	Breakout	Citations
			study astronomy and the formation of the universe.	30.3 Emission Spectra 30.5 Absorption Spectra Chapter 30 Review: Think and Explain (Synthesis) Q 45, 66, 67 Chapter 30 Review: Think and Discuss (Evaluation) Q 78, 79
			PHY.4.11 Enrichment: Research digital nonfictional text to defend the wave-particle duality of light (i.e., wave model of light and particle model of light).	The text does not cover this objective.
			PHY.4.12 Enrichment: Research uses of the electromagnetic spectrum or photoelectric effect.	Chapter 31: Light Quanta Chapter 31 Review: Think and Explain (Synthesis) Q 51, 52
PHY.5 Electricity and Magnetism	In electrical interactions, electrical energy (whether battery or circuit energy) is transformed into other forms of energy. Charged	PHY.5 Students will investigate the key components of electricity and magnetism.	PHY.5.1 Analyze and explain electricity and the relationship between electricity and magnetism.	Chapter 25: Electromagnetic Induction 25.1 Electromagnetic Induction Chapter 25 Review: Think and Discuss (Evaluation)

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	particles and magnetic fields are similar in that they store energy. Magnetic fields exert forces on moving charged particles. Changing magnetic fields cause electrons in wires to move and thus create a current.			Q 99, 100
			PHY.5.2 Explore the characteristics of static charge and how a static charge is generated using simulations.	Partial coverage: Students conduct hands-on activities to generate static charge, but do not use simulations. Chapter 22: Electrostatics 22.3 Conservation of Charge Chapter 22 Review: Hands-On Applications Q 31, 32, 34
			PHY.5.3 Use mathematical and computational analysis to analyze problems dealing with electric field, electric potential, current, voltage, and resistance as related to Ohm’s law.	Chapter 22: Electrostatics Chapter 22 Review: Think and Solve (Mathematical Application) Q 42-46 Chapter 23: Electric Current

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				Chapter 23 Review: Think and Solve (Mathematical Application) Q 40, 41
			PHY.5.4 Develop and use models (e.g., circuit drawing and mathematical representation) to explain how electric circuits work by tracing the path of electrons, including concepts of energy transformation, transfer, conservation of energy, electric charge, and resistance using online simulations, probe systems, and/or laboratory experiences.	Partial coverage: Students do not develop circuit drawings or use online simulations, probe systems or lab experiences. They solve problems based on circuit drawings given in the text. Chapter 23: Electric Current 23.8 Electric Circuits Chapter 23 Review: Think and Discuss (Evaluation) Q 99, 100
			PHY.5.5 Design and conduct an investigation of magnetic poles, magnetic flux and magnetic field using online simulations, probe systems, and/or laboratory experiences.	Chapter 24: Magnetism 24.2 Magnetic Poles 24.3 Magnetic Field Chapter 24 Review: Think and Do (Hands-On Applications) Q 31-35
			PHY.5.6 Use schematic diagrams to analyze the current flow in	The text does not cover this objective.

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			series and parallel electric circuits, given the component resistances and the imposed electric potential.	
			PHY.5.7 Analyze and communicate the relationship between magnetic fields and electrical current by induction, generators, and electric motors (e.g., microphones, speakers, generators, and motors) using Ampere's and Faraday's laws.	Partial coverage: The text does not cover Ampere's law. Chapter 25: Electromagnetic Induction 25.2 Faraday's Law Chapter 25 Review: Think and Explain (Synthesis) Q 47-49, 57, 65, 66
			PHY.5.8 Enrichment: Design and construct a simple motor to develop an explanation of how the motor transforms electrical energy into mechanical energy and work.	Partial coverage: Students learn about simple motors but do not design or construct them. Chapter 24: Magnetism 24.7 Magnetic Forces
			PHY.5.9 Enrichment: Design and draw a schematic of a circuit that will turn on/off a light from two locations in a room like those found in most homes.	The text does not cover this objective.

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PHY.6 Nuclear Energy	Nuclear energy is energy stored in the nucleus of the atom. The energy holding atoms together is called binding energy. The binding energy is a huge amount of energy. So, at the subatomic scale, the conservation of energy becomes the conservation of mass-energy.	PHY.6 Students will demonstrate an understanding of the basic principles of nuclear energy.	PHY.6.1 Analyze and explain the concepts of nuclear physics.	Chapter 34: Nuclear Fission and Fusion 34.1 Nuclear Fission 34.6 Nuclear Fusion
			PHY.6.2 Explore the mass number and atomic number of the nucleus of an isotope of a given chemical element.	Chapter 11: The Atomic Nature of Matter 11.5 Isotopes Chapter 33: The Atomic Nucleus and Radioactivity Chapter 33 Review: Think and Explain (Synthesis) Q 60, 68
			PHY.6.3 Investigate the conservation of mass and the conservation of charge by writing and balancing nuclear decay	Chapter 33: The Atomic Nucleus and Radioactivity 33.8 Transmutation of Elements

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			equations for alpha and beta decay.	The following questions do not explicitly ask students to write balanced equations for alpha and beta decay, but they may do so to answer the questions. Chapter 33 Review: Think and Explain (Synthesis) Q 72-74
			PHY.6.4 Simulate the process of nuclear decay using online simulations and/or laboratory experiences and using mathematical computations determine the half-life of radioactive isotopes.	Chapter 33: The Atomic Nucleus and Radioactivity Chapter 33 Review: Think and Solve (Mathematical Application) Q 35-38

Objectives identified by “Enrichment:” are considered enrichment material that may be expanded upon as time permits. Engineering standards are represented in some performance objectives with specific wording that will prompt students to approach learning and exploration using the engineering process. These performance objectives are marked with an * at the end of the statement.