

Chapter/ Section	Benchmarks/Standards	Dates Taught	Notes
Chapter 1	A Physics Toolkit		
Section 1.1 Mathematics and Physics	SC.B.2.4.1, SC.C.2.4.1, SC.H.1.4.1, SC.H.1.4.2, SC.H.1.4.3, SC.H.1.4.5, SC.H.1.4.6, SC.H.1.4.7, SC.H.2.4.1, SC.H.3.4.4		
Section 1.2 Measurement	SC.H.1.4.7, SC.H.3.4.2, SC.H.3.4.4, SC.H.3.4.5, SC.H.3.4.6		
Section 1.3 Graphing Data	SC.H.1.4.1, SC.H.1.4.2, SC.H.1.4.4, SC.H.1.4.5, SC.H.1.4.6, SC.H.1.4.7, SC.H.3.4.2, SC.H.3.4.5, SC.H.3.4.6		
Chapter 2	Representing Motion		
Section 2.1 Picturing Motion	SC.C.1.4.1		
Section 2.2 Where and When?			
Section 2.3 Position-Time Graphs	SC.C.1.4.1		
Section 2.4 How Fast?	SC.C.1.4.1, SC.H.1.4.1, SC.H.3.4.1, SC.H.3.4.2, SC.H.3.4.4, SC.H.3.4.6		
Chapter 3	Accelerated Motion		
Section 3.1 Acceleration	SC.C.1.4.2		
Section 3.2 Motion with Constant Acceleration	SC.C.1.4.2		
Section 3.3 Free Fall	SC.C.1.4.1, SC.C.1.4.2, SC.C.2.4.1, SC.C.2.4.1, SC.H.1.4.1, SC.H.1.4.4, SC.H.1.4.7, SC.H.2.4.2, SC.H.3.4.1,		
Chapter 4	Forces in One Dimension		
Section 4.1 Force and Motion	SC.C.2.4.6		

Instructor Name: _____

Year: _____

Chapter/ Section	Benchmarks/Standards	Dates Taught	Notes
Section 4.2 Using Newton's Laws			
Section 4.3 Interaction Forces	SC.C.2.4.1, SC.C.2.4.6, SC.H.1.4.1, SC.H.3.4.6		
Chapter 5	Forces in Two Dimensions		
Section 5.1 Vectors	SC.H.1.4.1		
Section 5.2 Friction	SC.A.1.4.2, SC.C.2.4.5		
Section 5.3 Force and Motion in Two Dimensions	SC.H.1.4.1, SC.H.3.4.6		
Chapter 6	Motion in Two Dimensions		
Section 6.1 Projectile Motion	SC.C.1.4.1		
Section 6.2 Circular Motion	SC.C.1.4.2, SC.H.3.4.2, SC.H.3.4.6		
Section 6.3 Relative Velocity	SC.C.1.4.1, SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.3, SC.H.3.4.6		
Chapter 7	Gravitation		
Section 7.1 Planetary Motion and Gravitation	SC.C.2.4.1, SC.H.1.4.1, SC.H.1.4.2, SC.H.1.4.3, SC.H.1.4.5, SC.H.1.4.6, SC.H.1.4.7, SC.H.2.4.1, SC.H.2.4.2		
Section 7.2 Using the Law of Universal Gravitation	SC.C.2.4.1, SC.H.1.4.1, SC.H.1.4.2, SC.H.2.4.2, SC.H.3.4.1		
Chapter 8	Rotational Motion		
Section 8.1 Describing Rotational Motion	SC.C.1.4.2, SC.H.1.4.1, SC.H.3.4.6		

Chapter/ Section	Benchmarks/Standards	Dates Taught	Notes
Section 8.2 Rotational Dynamics			
Section 8.3 Equilibrium	SC.C.1.4.1, SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.3		
Chapter 9	Momentum and Its Conservation		
Section 9.1 Impulse and Momentum	SC.H.3.4.3, SC.H.3.4.6		
Section 9.2 Conservation of Momentum	SC.H.1.4.1, SC.H.1.4.7, SC.H.3.4.2, SC.H.3.4.3, SC.H.3.4.4, SC.H.3.4.5, SC.H.3.4.6		
Chapter 10	Energy, Work, and Simple Machines		
Section 10.1 Energy and Work			
Section 10.2 Machines	SC.B.1.4.1, SC.H.1.4.1		
Chapter 11	Energy and Its Conservation		
Section 11.1 The Many Forms of Energy	SC.B.1.4.1		
Section 11.2 Conservation of Energy	SC.B.1.4.1, SC.B.1.4.7, SC.B.2.4.1, SC.H.1.4.1, SC.H.3.4.6		
Chapter 12	Thermal Energy		
Section 12.1 Temperature and Thermal Energy	SC.B.1.4.1, SC.B.1.4.2, SC.B.1.4.3, SC.H.1.4.1		
Section 12.2 Changes of State and the Laws of Thermodynam ics	SC.A.1.4.2, SC.A.1.4.3, SC.B.1.4.2, SC.B.1.4.3, SC.B.1.4.5, SC.B.1.4.6, SC.B.1.4.7, SC.H.1.4.1, SC.H.1.4.2, SC.H.3.4.6		
Chapter 13	States of Matter		
Section 13.1 Properties of Fluids	SC.A.1.4.2, SC.A.1.4.3, SC.C.2.4.5, SC.H.1.4.1		

Instructor Name: _____

Year: _____

Chapter/ Section	Benchmarks/Standards	Dates Taught	Notes
Section 13.2 Forces Within Liquids	SC.A.1.4.2, SC.A.1.4.3, SC.C.2.4.5, SC.C.2.4.5		
Section 13.3 Fluids at Rest and in Motion			
Section 13.4 Solids	SC.A.1.4.2, SC.B.1.4.3, SC.H.1.4.1, SC.H.2.4.2, SC.H.3.4.2		
Chapter 14	Vibrations and Waves		
Section 14.1 Periodic Motion			
Section 14.2 Wave Properties			
Section 14.3 Wave Behavior	SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.3, SC.H.3.4.6		
Chapter 15	Sound		
Section 15.1 Properties and Detection of Sound	SC.C.1.4.1		
Section 15.2 The Physics of Music	SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.3, SC.H.3.4.4		
Chapter 16	Fundamentals of Light		
Section 16.1 Illumination	SC.H.2.4.2		
Section 16.2 The Wave Nature of Light	SC.B.1.4.1, SC.C.1.4.1, SC.H.1.4.1, SC.H.1.4.2, SC.H.1.4.3, SC.H.1.4.6, SC.H.3.4.5, SC.H.3.4.6		
Chapter 17	Reflection and Mirrors		
Section 17.1 Reflection from Plane Mirrors			

Chapter/ Section	Benchmarks/Standards	Dates Taught	Notes
Section 17.2 Curved Mirrors	SC.H.1.4.1, SC.H.3.4.4, SC.H.3.4.6		
Chapter 18	Refraction and Lenses		
Section 18.1 Refraction of Light			
Section 18.2 Convex and Concave Lenses			
Section 18.3 Applications of Lenses	SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.3, SC.H.3.4.5		
Chapter 19	Interference and Diffraction		
Section 19.1 Interference	SC.H.1.4.1, SC.H.1.4.3, SC.H.1.4.6, SC.H.1.4.7		
Section 19.2 Diffraction	SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.5		
Chapter 20	Static Electricity		
Section 20.1 Electric Charge	SC.C.2.4.2, SC.C.2.4.5, SC.C.2.4.6, SC.H.1.4.3, SC.H.1.4.6, SC.H.2.4.2		
Section 20.2 Electric Force	SC.B.1.4.5, SC.C.2.4.2, SC.C.2.4.6, SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.5, SC.H.3.4.6		
Chapter 21	Electric Fields		
Section 21.1 Creating and Measuring Electric Fields	SC.C.2.4.2, SC.C.2.4.6		
Section 21.2 Applications of Electric Fields	SC.C.2.4.1, SC.C.2.4.6, SC.H.1.4.1, SC.H.2.4.2, SC.H.3.4.2, SC.H.3.4.6		
Chapter 22	Current Electricity		
Section 22.1 Current and Circuits			

Chapter/ Section	Benchmarks/Standards	Dates Taught	Notes
Section 22.2 Using Electric Energy	SC.B.1.4.5, SC.B.1.4.7, SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.6		
Chapter 23	Series and Parallel Circuits		
Section 23.1 Simple Circuits			
Section 23.2 Applications of Circuits	SC.H.1.4.1, SC.H.3.4.6		
Chapter 24	Magnetic Fields		
Section 24.1 Magnets: Permanent and Temporary	SC.C.2.4.3, SC.H.2.4.2, SC.H.3.4.2, SC.H.3.4.3, SC.H.3.4.6		
Section 24.2 Forces Caused by Magnetic Fields	SC.C.2.4.3, SC.H.1.4.1, SC.H.1.4.4, SC.H.1.4.7, SC.H.3.4.6		
Chapter 25	Electromagnetic Induction		
Section 25.1 Electric Current from Changing Magnetic Fields	SC.C.2.4.3, SC.H.1.4.2, SC.H.2.4.2, SC.H.3.4.6		
Section 25.2 Changing Magnetic Fields Induce EMF	SC.C.2.4.3, SC.H.1.4.1, SC.H.1.4.3, SC.H.1.4.6, SC.H.2.4.2, SC.H.3.4.2, SC.H.3.4.6		
Chapter 26	Electromagnetism		
Section 26.1 Interactions of Electric and Magnetic Fields and Matter	SC.B.1.4.4, SC.C.2.4.3, SC.H.2.4.1, SC.H.2.4.2, SC.H.3.4.2		
Section 26.2 Electric and Magnetic Fields in Space	SC.B.1.4.1, SC.B.1.4.4, SC.C.2.4.3, SC.H.1.4.1, SC.H.1.4.2, SC.H.1.4.3, SC.H.1.4.6, SC.H.2.4.2, SC.H.3.4.2, SC.H.3.4.6		

Chapter/ Section	Benchmarks/Standards	Dates Taught	Notes
Chapter 27	Quantum Theory		
Section 27.1 A Particle Model of Waves	SC.A.2.4.6, SC.B.1.4.4, SC.H.1.4.2, SC.H.1.4.3, SC.H.1.4.5, SC.H.1.4.6, SC.H.2.4.1		
Section 27.2 Matter Waves	SC.A.2.4.6, SC.H.1.4.1, SC.H.2.4.2, SC.H.3.4.2		
Chapter 28	The Atom		
Section 28.1 The Bohr Model of the Atom	SC.A.1.4.2, SC.A.2.4.6, SC.B.1.4.4, SC.H.1.4.2, SC.H.1.4.3, SC.H.1.4.6, SC.H.1.4.7, SC.H.2.4.2		
Section 28.2 The Quantum Model of the Atom	SC.H.1.4.1, SC.H.1.4.3, SC.H.1.4.6, SC.H.3.4.2, SC.H.3.4.5, SC.H.3.4.6		
Chapter 29	Solid-State Electronics		
Section 29.1 Conduction in Solids	SC.A.1.4.2, SC.H.3.4.6		
Section 29.2 Electronic Devices	SC.A.1.4.2, SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.5, SC.H.3.4.6		
Chapter 30	Nuclear Physics		
Section 30.1 The Nucleus	SC.B.1.4.2, SC.C.2.4.4, SC.H.3.4.1, SC.H.3.4.5		
Section 30.2 Nuclear Decay and Reactions	SC.A.2.4.4, SC.B.1.4.2, SC.B.1.4.5, SC.C.2.4., SC.H.3.4.5		
Section 30.3 The Building Blocks of Matter	SC.A.2.4.4, SC.B.1.4.2, SC.B.1.4.5, SC.B.1.4.7, SC.B.2.4.1, SC.C.2.4.4, SC.H.1.4.1, SC.H.3.4.2, SC.H.3.4.2, SC.H.3.4.6		