

Physical Science Core

Unit 1: Let's Get Physical!
Lesson 1.1: Science as Inquiry
<input type="checkbox"/> 1.1.1: Study – Summarizing Duration: 1 hr 15 min
<input type="checkbox"/> 1.1.2: Discuss - Searching for Truth Duration: 30 min ____ / 20
<input type="checkbox"/> 1.1.3: Quiz - Science as Inquiry Duration: 40 min ____ / 30
Lesson 1.2: The Scientific Method
<input type="checkbox"/> 1.2.1: Study - Representing Data Graphically Duration: 1 hr 15 min
<input type="checkbox"/> 1.2.2: Journal - Reflections on the Method Duration: 30 min ____ / 20
<input type="checkbox"/> 1.2.3: Lab - Wet Pennies Duration: 1 hr 15 min ____ / 40
<input type="checkbox"/> 1.2.4: Quiz - The Scientific Method Duration: 40 min ____ / 30
Lesson 1.3: Let's Get Physical! Wrap-Up
<input type="checkbox"/> 1.3.1: Review - Let's Get Physical! Duration: 50 min
<input type="checkbox"/> 1.3.2: Practice - Introduction to Physical Science Duration: 1 hr ____ / 50
<input type="checkbox"/> 1.3.3: Test (CST) - Let's Get Physical! Duration: 40 min ____ / 50
<input type="checkbox"/> 1.3.4: Test (TST) - Let's Get Physical! Duration: 40 min ____ / 50
Lesson 1.4: Diagnostic
<input type="checkbox"/> 1.4.1: Diag - Let's Get Physical! Duration: 1 hr ____ / 25
Unit 2: Get Your Motor Running
Lesson 2.1: Introduction to Kinematics
<input type="checkbox"/> 2.1.1: Study - Graphing Motion Duration: 1 hr 15 min
<input type="checkbox"/> 2.1.2: Discuss - Defining Distance and Displacement Duration: 30 min ____ / 20
<input type="checkbox"/> 2.1.3: Quiz - Introduction to Kinematics Duration: 40 min ____ / 30
Lesson 2.2: Gravity and Free Fall
<input type="checkbox"/> 2.2.1: Study - Catch Me – I'm Falling Duration: 1 hr 15 min
<input type="checkbox"/> 2.2.2: Lab - Falling Bodies Duration: 50 min ____ / 40
<input type="checkbox"/> 2.2.3: Quiz - Gravity and Free Fall Duration: 40 min ____ / 30
Lesson 2.3: Motion in Two Dimensions
<input type="checkbox"/> 2.3.1: Study – Vectors Duration: 1 hr 15 min
<input type="checkbox"/> 2.3.2: Discuss - Athletic Projectiles Duration: 30 min ____ / 20
<input type="checkbox"/> 2.3.3: Quiz - Motion in Two Dimensions Duration: 40 min ____ / 30
Lesson 2.4: Get Your Motor Running Wrap-Up
<input type="checkbox"/> 2.4.1: Review - Get Your Motor Running Duration: 1 hr
<input type="checkbox"/> 2.4.2: Practice – Motion Duration: 1 hr ____ / 50
<input type="checkbox"/> 2.4.3: Test (CST) - Get Your Motor Running Duration: 1 hr ____ / 50
<input type="checkbox"/> 2.4.4: Test (TST) - Get Your Motor Running Duration: 1 hr ____ / 50
Lesson 2.5: Diagnostic
<input type="checkbox"/> 2.5.1: Diag - Get Your Motor Running Duration: 1 hr ____ / 25
Unit 3: May the Net Force Be with You
Lesson 3.1: Newton's Laws of Motion
<input type="checkbox"/> 3.1.1: Study - Newton's First Law of Motion Duration: 1 hr
<input type="checkbox"/> 3.1.2: Lab - Newton's Laws Duration: 1 hr ____ / 40
<input type="checkbox"/> 3.1.3: Quiz - Newton's Laws of Motion Duration: 40 min ____ / 30
Lesson 3.2: Friction
<input type="checkbox"/> 3.2.1: Study - Therein Lies the Rub Duration: 1 hr 15 min
<input type="checkbox"/> 3.2.2: Lab - That Rubs Me the Wrong Way Duration: 1 hr
<input type="checkbox"/> 3.2.3: Quiz - Friction Duration: 40 min ____ / 30

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Lesson 3.3: Centripetal Force
<input type="checkbox"/> 3.3.1: Study - Motion in a Circle Duration: 1 hr 15 min
<input type="checkbox"/> 3.3.2: Discuss - My World Is Spinning Duration: 30 min ____ / 20
<input type="checkbox"/> 3.3.3: Quiz - Centripetal Force Duration: 40 min ____ / 30
Lesson 3.4: Buoyant Force
<input type="checkbox"/> 3.4.1: Study - Buoyant Force and Archimedes' Principle Duration: 1 hr 15 min
<input type="checkbox"/> 3.4.2: Journal - What Floats Your Boat? Duration: 30 min ____ / 20
<input type="checkbox"/> 3.4.3: Quiz - Buoyancy Duration: 40 min ____ / 30
Lesson 3.5: May the Net Force Be with You Wrap-Up
<input type="checkbox"/> 3.5.1: Review - May the Net Force Be with You Duration: 1 hr
<input type="checkbox"/> 3.5.2: Practice - Forces Duration: 1 hr ____ / 50
<input type="checkbox"/> 3.5.3: Test (CST) - May the Net Force Be with You Duration: 1 hr ____ / 50
<input type="checkbox"/> 3.5.4: Test (TST) - May the Net Force Be with You Duration: 1 hr ____ / 50
Lesson 3.6: Diagnostic
<input type="checkbox"/> 3.6.1: Diag - May the Net Force Be with You Duration: 1 hr ____ / 25
Unit 4: Crash into Me
Lesson 4.1: Momentum
<input type="checkbox"/> 4.1.1: Study - Momentum and Newton's Second Law Duration: 1 hr 15 min
<input type="checkbox"/> 4.1.2: Lab - Losing My Marbles Duration: 1 hr ____ / 40
<input type="checkbox"/> 4.1.3: Quiz - Momentum Duration: 40 min ____ / 30
Lesson 4.2: Work Simple Machines and Power
<input type="checkbox"/> 4.2.1: Study - Power Duration: 1 hr 15 min
<input type="checkbox"/> 4.2.2: Discuss - Working Out Duration: 30 min ____ / 20
<input type="checkbox"/> 4.2.3: Quiz - Work Simple Machines and Power Duration: 40 min ____ / 30
Lesson 4.3: Energy
<input type="checkbox"/> 4.3.1: Study - Work-Energy Theorem Duration: 1 hr 15 min
<input type="checkbox"/> 4.3.2: Discuss - Conserving Energy Duration: 30 min ____ / 20
<input type="checkbox"/> 4.3.3: Quiz - Energy Duration: 40 min ____ / 30
Lesson 4.4: Crash into Me Wrap-Up
<input type="checkbox"/> 4.4.1: Review - Crash into Me Duration: 1 hr
<input type="checkbox"/> 4.4.2: Practice - Energy Duration: 1 hr ____ / 50
<input type="checkbox"/> 4.4.3: Test (CST) - Crash into Me Duration: 1 hr ____ / 50
<input type="checkbox"/> 4.4.4: Test (TST) - Crash into Me Duration: 1 hr ____ / 50
Lesson 4.5: Diagnostic
<input type="checkbox"/> 4.5.1: Diag - Crash into Me Duration: 30 min ____ / 25
Unit 5: I'm Pickin' Up Good Vibrations
Lesson 5.1: Properties of Waves
<input type="checkbox"/> 5.1.1: Study - Types of Waves Duration: 1 hr 15 min
<input type="checkbox"/> 5.1.2: Lab - Smile and Wave Duration: 50 min ____ / 40
<input type="checkbox"/> 5.1.3: Quiz - Waves Duration: 40 min ____ / 30
Lesson 5.2: Sound Waves
<input type="checkbox"/> 5.2.1: Study - Matching-Up Time Duration: 1 hr 15 min
<input type="checkbox"/> 5.2.2: Quiz - Sound Waves Duration: 40 min ____ / 30
Lesson 5.3: Electromagnetic Waves
<input type="checkbox"/> 5.3.1: Study - Light Spectrum Duration: 1 hr 15 min
<input type="checkbox"/> 5.3.2: Quiz - Electromagnetic Waves Duration: 40 min ____ / 30

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Lesson 5.4: Optics
<input type="checkbox"/> 5.4.1: Study - Reflection and Mirrors Duration: 1 hr 15 min
<input type="checkbox"/> 5.4.2: Lab - Bend It Like Beckham Duration: 1 hr ____ / 40
<input type="checkbox"/> 5.4.3: Quiz - Optics Duration: 40 min ____ / 30
Lesson 5.5: I'm Pickin' Up Good Vibrations Wrap-Up
<input type="checkbox"/> 5.5.1: Review - I'm Pickin' Up Good Vibrations Duration: 1 hr
<input type="checkbox"/> 5.5.2: Practice - Waves Duration: 1 hr ____ / 50
<input type="checkbox"/> 5.5.3: Test (CST) - I'm Pickin' Up Good Vibrations Duration: 1 hr ____ / 50
<input type="checkbox"/> 5.5.4: Test (TST) - I'm Pickin' Up Good Vibrations Duration: 1 hr ____ / 50
Lesson 5.6: Diagnostic
<input type="checkbox"/> 5.6.1: Diag - I'm Pickin' Up Good Vibrations Duration: 50 min ____ / 25
Unit 6: It's Electric!
Lesson 6.1: Static Electricity
<input type="checkbox"/> 6.1.1: Study - Electric Charge Duration: 1 hr 15 min
<input type="checkbox"/> 6.1.2: Lab - A Shocking Tale Duration: 1 hr ____ / 40
<input type="checkbox"/> 6.1.3: Quiz - Static Electricity Duration: 40 min ____ / 30
Lesson 6.2: Current and Circuits
<input type="checkbox"/> 6.2.1: Study - Ohm's Law Duration: 1 hr 15 min
<input type="checkbox"/> 6.2.2: Discuss - Current Events Duration: 30 min ____ / 20
<input type="checkbox"/> 6.2.3: Quiz - Current and Circuits Duration: 40 min ____ / 30
Lesson 6.3: Magnetism
<input type="checkbox"/> 6.3.1: Study - Electromagnetism Duration: 1 hr 15 min
<input type="checkbox"/> 6.3.2: Journal - Surprise Science Duration: 30 min ____ / 20
<input type="checkbox"/> 6.3.3: Quiz - Magnetism Duration: 40 min ____ / 30
Lesson 6.4: It's Electric! Wrap-Up
<input type="checkbox"/> 6.4.1: Review - It's Electric! Duration: 50 min
<input type="checkbox"/> 6.4.2: Practice - Electricity and Magnetism Duration: 1 hr ____ / 50
<input type="checkbox"/> 6.4.3: Test (CST) - It's Electric! Duration: 1 hr ____ / 50
<input type="checkbox"/> 6.4.4: Test (TST) - It's Electric! Duration: 1 hr ____ / 50
Lesson 6.5: Diagnostic
<input type="checkbox"/> 6.5.1: Diag - It's Electric! Duration: 1 hr ____ / 25
Unit 7: Physical Science Semester 1 Review and Exam
Lesson 7.1: Physical Science Semester 1
<input type="checkbox"/> 7.1.1: Review - Physical Science Semester 1 Duration: 5 hrs
<input type="checkbox"/> 7.1.2: Exam - Physical Science Semester 1 Duration: 1 hr ____ / 90
<input type="checkbox"/> 7.1.3: Final Exam - Physical Science Semester 1 Duration: 1 hr ____ / 90
Unit 8: It's Elementary
Lesson 8.1: Structure and Components of the Atom
<input type="checkbox"/> 8.1.1: Study - It's Elementary Duration: 1 hr 15 min
<input type="checkbox"/> 8.1.2: Study - Atomic Properties Duration: 1 hr 15 min
<input type="checkbox"/> 8.1.3: Lab - Braving the Elements Duration: 1 hr ____ / 40
<input type="checkbox"/> 8.1.4: Quiz - Structure and Components of the Atom Duration: 40 min ____ / 30
Lesson 8.2: The Periodic Table
<input type="checkbox"/> 8.2.1: Study - Families Duration: 1 hr 15 min
<input type="checkbox"/> 8.2.2: Discuss - Periodic Updates Duration: 30 min ____ / 20
<input type="checkbox"/> 8.2.3: Quiz - The Periodic Table Duration: 40 min ____ / 30

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Lesson 8.3: Trends and Patterns

8.3.1: Study – Trends Duration: 1 hr 15 min

8.3.2: Lab - Elements from Outer Space Duration: 1 hr ____ / 40

8.3.3: Quiz - Trends and Patterns Duration: 40 min ____ / 30

Lesson 8.4: It's Elementary Wrap-Up

8.4.1: Review - Atomic Structure and the Periodic Table Duration: 1 hr 15 min

8.4.2: Practice - Atomic Knowledge Duration: 50 min ____ / 50

8.4.3: Test (CST) - It's Elementary Duration: 1 hr ____ / 50

8.4.4: Test (TST) - It's Elementary Duration: 1 hr ____ / 50

Lesson 8.5: Diagnostic

8.5.1: Diag - It's Elementary Duration: 1 hr ____ / 25

Unit 9: Bond. Molecular Bond.

Lesson 9.1: Bonding

9.1.1: Study - The Bond Family Tree Duration: 1 hr 15 min

9.1.2: Discuss - Bond and Determined Duration: 30 min ____ / 20

9.1.3: Quiz – Bonding Duration: 40 min ____ / 30

Lesson 9.2: Shapes of Molecules

9.2.1: Study - Hydrogen Bonding Duration: 1 hr 15 min

9.2.2: Lab - Edible Molecules Duration: 1 hr ____ / 40

9.2.3: Quiz - Shapes of Molecules Duration: 40 min ____ / 30

Lesson 9.3: Compounds

9.3.1: Study - Covalent Compounds Duration: 1 hr 15 min

9.3.2: Lab - How Do You Color Your Eggs? Duration: 1 hr ____ / 40

9.3.3: Quiz – Compounds Duration: 40 min ____ / 30

Lesson 9.4: Bond. Molecular Bond. Wrap-Up

9.4.1: Review - Bond. Molecular Bond. Duration: 1 hr

9.4.2: Practice – Bonding Duration: 1 hr ____ / 50

9.4.3: Test (CST) - Bond. Molecular Bond. Duration: 40 min ____ / 50

9.4.4: Test (TST) - Bond. Molecular Bond. Duration: 40 min ____ / 50

Lesson 9.5: Diagnostic

9.5.1: Diag - Bond. Molecular Bond: Wrap-Up Duration: 40 min ____ / 25

Unit 10: Chemical Reactions

Lesson 10.1: Chemical Equations and Conservation Laws

10.1.1: Study - Balancing Equations Duration: 1 hr 15 min

10.1.2: Lab - I'm Having a Reaction Duration: 1 hr ____ / 40

10.1.3: Quiz - Chemical Equations and Conservation Laws Duration: 40 min ____ / 30

Lesson 10.2: Reaction Types

10.2.1: Study - Combustion Precipitates and Solutions – Oh My! Duration: 1 hr 15 min

10.2.2: Discuss - Discussing Chemical Reactions Duration: 30 min ____ / 20

10.2.3: Quiz - Reaction Types Duration: 40 min ____ / 30

Lesson 10.3: Acids and Bases

10.3.1: Study – Reactions Duration: 1 hr 15 min

10.3.2: Journal - Basic Hygiene Duration: 30 min ____ / 20

10.3.3: Quiz - Acids and Bases Duration: 40 min ____ / 30

Lesson 10.4: Chemical Reactions Wrap-Up

10.4.1: Review - Chemical Reactions Duration: 50 min

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<input type="checkbox"/> 10.4.2: Practice - Chemical Reactions Duration: 50 min ____ / 50
<input type="checkbox"/> 10.4.3: Test (CST) - Chemical Reactions Duration: 1 hr ____ / 50
<input type="checkbox"/> 10.4.4: Test (TST) - Chemical Reactions Duration: 1 hr ____ / 50
Lesson 10.5: Diagnostic
<input type="checkbox"/> 10.5.1: Diag - Chemical Reactions Wrap-Up Duration: 30 min ____ / 25
Unit 11: Jumpin' Jack Flash – It's a Gas
Lesson 11.1: Heat
<input type="checkbox"/> 11.1.1: Study - Phase Changes Duration: 1 hr 15 min
<input type="checkbox"/> 11.1.2: Lab - Can You Feel the Heat? Duration: 1 hr ____ / 40
<input type="checkbox"/> 11.1.3: Quiz – Heat Duration: 40 min ____ / 30
Lesson 11.2: The Gas Laws
<input type="checkbox"/> 11.2.1: Study - The Pieces of the Puzzle Duration: 1 hr
<input type="checkbox"/> 11.2.2: Discuss – Moonwalking Duration: 30 min ____ / 20
<input type="checkbox"/> 11.2.3: Quiz - The Gas Laws Duration: 40 min ____ / 30
Lesson 11.3: Thermodynamics
<input type="checkbox"/> 11.3.1: Study – Entropy Duration: 1 hr
<input type="checkbox"/> 11.3.2: Lab - Homemade Ice Cream Duration: 1 hr ____ / 40
<input type="checkbox"/> 11.3.3: Quiz – Thermodynamics Duration: 40 min ____ / 30
Lesson 11.4: Jumpin' Jack Flash – It's a Gas Wrap-Up
<input type="checkbox"/> 11.4.1: Review - Jumpin' Jack Flash – It's a Gas Duration: 1 hr
<input type="checkbox"/> 11.4.2: Practice - Gases and Thermodynamics Duration: 1 hr ____ / 50
<input type="checkbox"/> 11.4.3: Test (CST) - Jumpin' Jack Flash – It's a Gas Duration: 40 min ____ / 50
<input type="checkbox"/> 11.4.4: Test (TST) - Jumpin' Jack Flash – It's a Gas Duration: 40 min ____ / 50
Lesson 11.5: Diagnostic
<input type="checkbox"/> 11.5.1: Diag - Jumpin' Jack Flash – It's a Gas Duration: 1 hr ____ / 25
Unit 12: Nuclear Energy Is Da Bomb
Lesson 12.1: Radio
<input type="checkbox"/> 12.1.1: Study - Decay Processes Duration: 1 hr 15 min
<input type="checkbox"/> 12.1.2: Lab - Nuclear Decay Chain Duration: 50 min ____ / 40
<input type="checkbox"/> 12.1.3: Quiz – Radio Duration: 40 min ____ / 30
Lesson 12.2: Nuclear Reactions
<input type="checkbox"/> 12.2.1: Study - Nuclear Transmutations Duration: 1 hr
<input type="checkbox"/> 12.2.2: Discuss - Conserving Your World Duration: 30 min ____ / 20
<input type="checkbox"/> 12.2.3: Quiz - Nuclear Reactions Duration: 40 min ____ / 30
Lesson 12.3: Energy of the Future
<input type="checkbox"/> 12.3.1: Study - Where Do We Go from Here? Duration: 1 hr
<input type="checkbox"/> 12.3.2: Journal - Not in My House? Duration: 30 min ____ / 20
<input type="checkbox"/> 12.3.3: Quiz - Nuclear Energy Duration: 40 min ____ / 30
Lesson 12.4: Nuclear Energy Is Da Bomb Wrap-Up
<input type="checkbox"/> 12.4.1: Review - Nuclear Energy Is Da Bomb Duration: 50 min
<input type="checkbox"/> 12.4.2: Practice - A Pound of This and a Pound of That Duration: 50 min ____ / 50
<input type="checkbox"/> 12.4.3: Test (CST) - Nuclear Energy Is Da Bomb Duration: 40 min ____ / 50
<input type="checkbox"/> 12.4.4: Test (TST) - Nuclear Energy Is Da Bomb Duration: 40 min ____ / 50
Lesson 12.5: Diagnostic
<input type="checkbox"/> 12.5.1: Diag - Nuclear Energy Is Da Bomb Duration: 1 hr ____ / 25

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Unit 13: Physical Science Semester 2 Review and Exam

Lesson 13.1: Physical Science Semester 2

<input type="checkbox"/> 13.1.1: Review - Physical Science Semester 2 Duration: 2 hrs
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<input type="checkbox"/> 13.1.2: Exam - Physical Science Semester 2 Duration: 50 min _____ / 90
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<input type="checkbox"/> 13.1.3: Final Exam - Physical Science Semester 2 Duration: 50 min _____ / 90
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