



Flying Colors Science Resource Library: Physical Science

Atoms & Elements

NGSS MS-PS1-1

Elements & the Periodic Table Unit Plan

Atoms and Elements Presentation

Structure of Atoms Foldable

Structure of Atoms Worksheet

Structure of Atoms Quiz

Inquiry-Based Introduction to the Periodic Table

Periodic Table Presentation

Practice Using the Periodic Table Worksheet

Naming Elements Reading & Questions

Mystery Elements Reading & Questions

Atoms, Elements, & Periodic Table CER

Periodic Trends Reading & Questions

Periodic Trends Worksheet

Periodic Trends Activity

Periodic Trends CER Activity

Periodic Table Quiz

Element Research Project

Periodic Table Test Review Worksheet

Periodic Table Test

Discovery of Elements Timeline Project

Properties of Matter

Mass, Weight, Volume, Density

Mass and Weight Comparison Worksheet

Properties of Matter Review Worksheet

Mass, Weight, Volume Quiz

Mass, Weight, Volume Test

Density Concept Introduction Worksheet

Density and Object Size Worksheet

Density of Liquids Worksheet

Density Practice Problems Worksheet

Density Challenger Worksheet

Density Review Worksheet

Density Quiz

Density Test

Classification of Matter

NGSS MS-PS1-1

Classification of Matter Unit Plan

Inquiry-Based Introduction to Classifying Matter

Classification of Matter Presentation

Elements vs. Compounds Brochure

Compounds Presentation

Modeling Elements, Compounds, & Mixtures

Counting Atoms in Formulas Worksheet

Characteristic Properties Worksheet

Characteristic Properties Quiz

How are Compounds Named? Text & Questions

Compounds Quiz

Mixtures Presentation

Separating Mixtures Activity (Paper-Based)

Mixtures and Solving Crimes Reading & Questions

Classification of Matter Cereal Lab

Classification of Matter Quiz

Classification of Matter CER Activity

Classification of Matter Worksheet

Classification of Matter Review Flash Cards

Top 10 Chemicals that Changed History

Classification of Matter Test Review

Classification of Matter Test

Natural versus Synthetic Materials and Impact on Society

NGSS MS-PS1-3

Natural vs. Synthetic Materials Unit Plan

Natural vs. Synthetic Materials WebQuest

Natural vs. Synthetic Materials Article & Questions

How Oil is Obtained Article & Questions

Natural & Synthetic Materials Timeline Project

Top 10 Synthetic Materials of the Future Reading & Questions

Materials of the Future Research Project

Natural vs. Synthetic Materials Assessment

Physical and Chemical Changes

NGSS MS-PS1-2, MS-PS1-5, and MS-PS1-6

Physical & Chemical Changes Unit Plan

Physical & Chemical Properties Reading & Questions

Physical & Chemical Changes Presentation

Physical & Chemical Changes Sorting Activity

Physical & Chemical Changes Worksheet

Physical & Chemical Changes CER Activity

Chemical Reactions Presentation

Reactants and Products Review Worksheet

Chemical Reactions Worksheet

Evidence of Chemical Reactions Hands-On Stations

Everyday Chemical Reactions Article & Worksheet

Law of Conservation of Mass Worksheet

Law of Conservation of Mass Reading & Worksheet

Law of Conservation of Mass Lab

Law of Conservation of Mass Quiz

Physical & Chemical Changes Penny Lab

Physical & Chemical Changes Review Flash Cards

Physical & Chemical Changes Quiz

Physical & Chemical Changes Test Review Worksheet

Physical & Chemical Changes Test

Poster Project for Physical and Chemical Changes

Energy

NGSS MS-PS3-1, MS-PS3-2, and MS-PS3-5

Energy Unit Plan

Forms of Energy Notes Presentation

Forms of Energy Worksheet

Hands-On Energy Stations

Energy Transformations Notes Presentation

Energy Transformations in Renewable Energy

Energy Transformations Activity

Energy Transformations Quiz

Types of Renewable Energy Article & Questions

Mass, Speed, Kinetic Energy Notes Presentation

Graphing Speed, Mass, Kinetic Energy (Cars)

Graphing Speed, Mass, Kinetic Energy (Sports)

Energy CER & Data Analysis Activity

Potential & Kinetic Energy Lab

Speed, Mass, Kinetic Energy Quiz

Energy Quiz

Energy Review Games

Energy Unit Review Worksheet

Energy Test

Energy Transformations Toy Project

Particle Motion and Heat

NGSS MS-PS1-4, MS-PS3-3, and MS-PS3-4

Particle Arrangement Reading & Worksheet

Particle Motion Worksheet

Particle Motion Lab

Particle Motion CER & Data Analysis

Temperature Worksheet

Thermal Equilibrium Reading & Worksheet

Thermal Expansion Worksheet

Particle Motion & Phase Change Quiz

3 Types of Heat Transfer Text & Questions

Modeling Convection Hands-On Activity

Density & Convection Currents Text & Questions

Convection Worksheet

Heat Transfer/Insulator Lab

Insulating Device Project

Heat Transfer Worksheet (Higher Rigor)

Thermal Energy CER Activity

Types of Heat Transfer Quiz

Heat Unit Review Worksheet

Particle Motion and Heat Test

Speed

Calculate & Graph Speed Worksheet

Falling Dominos Speed Lab

Speed of World Record Runners Worksheet

Speed Graphs CER Stations Activity

Speed and Speed Graphs Test

Newton's Laws

NGSS MS-PS2-1 and MS-PS2-2

Newton's Laws Unit Plan

Newton's Laws Presentation

1st Law Graphing Inertia Activity

1st Law Activity Stations

2nd Law Calculate & Graph $F=MA$

2nd Law $F=MA$ Hands-On Lab

3rd Law Activity Stations

3rd Law Action/Reaction "Two Truths & a Lie"

Newton's Laws Review Worksheet

Newton's Laws Quiz

Newton's Laws CER Activity

Newton's Laws Test

Newton's Laws Poster or Video Project

Speed AND Newton's Laws Test

Electricity and Magnetism

NGSS MS-PS2-3 and MS-PS2-5

Electric Charges & Electric Forces Reading & Worksheet

Static Electricity Reading & Worksheet

Electric Charges Worksheet

Static Electricity CER & Data Analysis Activity

Electric Charges Quiz

Online Circuits Activity

Circuits Quiz

Electric Charges & Field Lines Online Activity

Magnetism CER Stations Activity

Top 10 Real-World Uses of Magnets Articles & Questions

Magnetism Quiz

Electricity and Magnetism Test

Gravity

NGSS MS-PS2-4 and MS-PS2-5

Gravity Unit Plan

Gravity Notes Presentation

Gravitational Interactions Worksheet

Graphing Gravity Activity

Mass & Weight Comparison Activity

Weight on Different Planets Activity

Gravity CER & Data Analysis Activity

Gravity & the Birth of the Universe Reading & Questions

Gravity & the Birth of our Solar System Reading & Questions

Gravity's Role in Planetary Orbits Reading & Questions

Gravity's Role in Black Holes Reading & Questions

10 Ways Life Would Be Different Without Gravity Reading & Questions

Gravity Assessment

Waves

NGSS MS-PS4-1, MS-PS4-2, and MS-PS4-3

Waves Text & Worksheet

Analog & Digital Signals Article & Graphing

Analog Waves “Texting” Activity

Analog & Digital Signals Quiz

Light Quiz

Sound Waves Quiz

Waves Review Worksheet

Waves CER Stations Activity/Worksheet

Top 10 Real-World Uses of Waves Reading & Questions

Waves Quiz

Waves Test

Final Exam

Physical Science Final Exam

Physical Science Scientist Biographies

Dmitri Mendeleev Biography & Questions

Nikola Tesla Biography and Worksheet

Isaac Newton Biography & Questions

Olga González-Sanabria (NASA Engineer) Biography & Questions

Bisi Ezerioha (Engineer) Biography & Questions

Grab-and-Go Physical Science Sub Plans

Top 10 Real-World Uses of Waves Reading & Questions

10 Ways Life Would Be Different Without Gravity Reading & Questions

Top 10 Real-World Uses of Magnets Articles & Questions

Top 10 Everyday Chemical Reactions Article & Worksheet

Top 10 Chemicals that Changed History

Top 10 Synthetic Materials of the Future Reading & Questions