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Middle School Science

a resource for grades 5 - 8



Chemistry | Earth Science | Life Science | Physics

5th Grade Science Notebook

Updating for 2012-2013

Home
FAQs
News
Teacher
Sites
Plan Book
Notebook
Odds &
Ends
NJCCCS
5th Grade
HW
Science
Starters
Blog

Units

Notebook Pages

Becoming a Scientist

Big Idea:

Scientific Progress is made by asking meaningful questions and conducting careful investigations.

- [Safety Rules](#)
- [Safety Symbols](#)
- [Scavenger Hunt](#)
- [I am a Scientist, ppt](#)
- [SpongeBob Safety Rules Activity](#)
- [What's wrong? Safety Pictures](#)
- [Mystery Footprints: PPT, Notes](#)
- [Qualitative, Quantitative, Observation, Inference](#)
- [D&T Class Activity](#)
- [D&T Activity write up & draw a scene from your story](#)
- [Surface Tension Demo](#)
- [Observation Vocab List](#)
- [Drops of Water on a Penny](#)
- [Analysis: Drops of Water on a Penny](#)

Metric System

[top](#)

Big Idea:

Matter is described by its properties and may undergo changes

- [Metric System Notes](#)
- [Metric Units](#)
- [Reading a Ruler](#) pg 1 & 2
- [Length, Width, & Height](#) Lab (top)
- Irregular Volume Lab: [Water Displacement](#) (bottom)
- [Volume of a regular solid](#) pg. 1
- (alternative sheet) [Volume LxWxH](#)
- [Reading a graduated cylinder](#)
- [Reading a graduated cylinder, water displacement, volume](#)
- (alternative sheet) [Volume Study Guide](#)
- [BBC Measures](#) - Laptop Activity [Link](#)
- (alternative sheet) [Metric Tic Tac Toe, Volume](#)
- [Reading a Triple Beam Balance](#) - Laptop Activity [Link](#)
- [TBB Lab](#)
- TBB Lab Write up
- TBB Vocab
- [TBB Water Lab](#)
- TBB Water Lab write up

Properties of Matter[top](#)**Big Ideas:**

Matter is described by its properties and may undergo changes

Forces in fluids are related to pressure and density and can affect the motion of objects in the fluid

Matter exists in various physical states, which are

- BrainPOP - [Archimedes](#)
- BrainPOP - [Graphic Organizer MVD Matrix](#)
- [Mass, Volume, Density](#) Notes Foldable
- [BrainPOP Mass, Volume, Density Table](#)
- Practice using the Formula: [Mass, Volume, or Density?](#)
- BrainPOP: [Measuring Matter Quiz](#)
- [Float or Sink](#) - Laptop Activity [Link](#)
- Analysis: Float or Sink Lab

determined by the movement of the matter's particles.

Matter can be classified into elements, compounds, and mixtures

- [Dunkin' for Density](#)
- Analysis: Dunkin' for Density
- [Buoyancy Notes](#)
- [Buoyancy Cut 'n Paste Vocab](#)
- [Cartesian Diver Observation](#)
- BrainPOP: [Cartesian Diver Reading](#)
- Read About it [BrainPOP - Swim Bladder Reading](#) BrainPOP: [Buoyancy Quiz](#)
- [Penny Boat Challenge](#)
- Penny Boat - drawings, notes, data, reflections
BrainPOP: [States of Matter Notes](#)
- BrainPOP - [States of Matter Graphic Organizer](#) BrainPOP - [Activity Page](#)
- [States of Matter Vocab](#)
- BrainPOP States of Matter [Quiz](#)
- [States & Phases Venn Diagram](#) : SmartBoard Game
- BrainPOP: [Phase Changes Activity](#)
- Read About it: [BrainPOP - hot water freezes faster?](#)
BrainPOP: [Phase Changes Activity](#)
- [Phase Change Vocab](#)
- BrainPOP: Phase Changes [Quiz](#)
- Read About it: [BrainPOP - What's an icebox? Physical and Chemical Properties, Changes Foldable](#)
- [Physical & Chemical Properties, BrainPOP Property Changes](#)
- [Physical & Chemical Change Activity](#)
- Analysis: Physical & Chemical Change Activity
- BrainPOP FYI: [Oxidation](#)
- BrainPOP: Property Changes [Quiz](#)
- [Candle Observations](#)
- Candle Observation Analysis
- Candle Info

- [Elements, Compounds, & Mixtures Notes, PPT Activity](#)
- [Elements, Compounds, & Mixtures](#)
- [Element, Compound, or Mixture?](#)
- [Lego Activity - Building Blocks of Matter](#)
- [Element, Compound, or Mixture?](#)
- [Read About it: BrainPOP - Earth, Air, Fire, and Water](#)
- [Sugar Lab](#)
- [BBC: Solutions](#)
- [BrainPOP: Mixtures and Compounds Mixtures Quiz](#)
- [Solutions - Rainbow Lab](#)
- [Analysis Rainbow Lab](#)
- [Chromatography Lab](#)
- [Chromatography Lab](#)
- [Cut 'n Paste Matter Vocab pg 1 , ppt](#)

Chemistry

[top](#)

Big Ideas:

Atoms are composed of small particles that determine the properties of the atom

Elements are organized on the periodic table according to their properties

Atoms combine to form ionic and covalent bonds.

Substances undergo chemical reactions which form new substances whose properties differ from the properties of the

- [BrainPOP - Atomic Model Notes](#)
- [Atomic Model Timeline, PDF Notes](#)
- [BrainPOP Adv. Activity](#)
- [Read About It: BrainPOP Gold Foil Experiment](#)
- [Read About It: BrainPOP Niels Bohr](#)
- [Einstein's letter to FDR](#)
- [FDR to Einstein](#)
- [BrainPOP FYI: Robert Oppenheimer](#)
- [BrainPOP FYI: Radioactivity and Comic Books](#)
- [Atoms Family Notes, PPT](#)
- [Atoms Family Math](#)
- [FYI: BrainPOP- Mendeleev](#)
- [BrainPOP FYI: Language, Periodic](#)

original substance.

Chemical Compounds are classified into groups based on their bonds and on their properties.

Substances undergo chemical reactions which form new substances whose properties differ from the properties of the original substance.

Table Elements

- Color the Periodic Table Notes, PPT, and Periodic Table (kept in folder)
- Shells and Valence Electrons Study Guide Notes, PPT
- Atoms Vocab pg. 1
- Atoms Vocab pg. 2
- Practice: Periods & Groups
- How to Draw Bohr Diagrams: Notes, PPT,
- Practice: Bohr Diagrams
- Lewis Structure Notes Booklet/Foldable Pgs 1, 4 & pgs 2, 3, PowerPoint Lesson
- Practice: Lewis Structures
- Ionic and Covalent Bonding Notes, Smart Board File
- Practice - Ionic or Covalent
- Making Molecular Models
- Making Molecular Models Analysis
- Practice: Counting Atoms
- Bond with a Classmate, Tags
- Practice Naming Compounds
- Ions Vocab pg. 1
- Ions Vocab pg. 2
- Balancing Equations Activity
- Practice- Balancing Equations pg 2
- Law of Conservation of Mass
- Conservation of Mass Analysis
- Acids/Bases Venn Diagram
- Acid/Base BrainPOP Quiz
- BrainPOP - FYI - Gastric Acid
- BrainPOP - pH Quiz
- BrainPOP - FYI - Gastric Acid
- BrainPOP - pH Quiz
- Cabbage Juice Lab
- Analysis: Cabbage Juice Lab
- Mystery Powder Lab
- Flow Chart & Answers
- Acids/Bases Vocab pg. 1
- Acids/Bases Vocab pg. 2

Minerals, Mining, & Rocks[top](#)**Big Ideas:**

Minerals have characteristic physical and chemical properties that determine how each mineral is used by humans.

Rock changes through the rock cycle and is classified by how it formed, by its composition, and by its texture.

Studying the rock and fossil record help us understand Earth's history and the history of life on Earth.

- What is a mineral? [Notes & PPT](#)
- [Minerals in your home, Link](#)
- [Crystal Shapes Handout](#)
- Graphic Organizer: [Crystal Forms](#)
- [Minerals Vocab pg. 1](#)
- [Minerals Vocab pg. 2](#)
- Graphic Organizer: [Silicate Minerals, ppt](#)
- Graphic Organizer: [Nonsilicate Minerals](#)
- [Mineral Identification Outline](#)
- Practice: [Mineral Groups](#)
- [Mineral Identification Lab](#)
- Practice: [Mohs Scale of Hardness](#) (pg. 17)
- What is mining? [PPT](#), [Notes](#)
- Little Miners [ppt & questions](#),
- [Cookie Mining Lab](#)
- [Mining in NJ](#) - color code map (pg 2)
- BrainPOP Rocks - Fill in the blank notes
- Types of Rocks [Power Point](#) and [notes](#))
- BrainPOP Rocks - [Graphic Organizer](#)
- Color the Rock Cycle Notes & [ppt](#)
- [Rocks Vocabulary Cut 'n Paste](#)
- [Ride the Rock Cycle Activity, Comic to hand in](#)
- [Igneous Rocks](#)
- [Metamorphic Rocks](#)
- [Sedimentary Rocks](#)
- BrainPOP FYI: [Grand Canyon](#)
- BrainPOP Weathering handout
- Law of Superposition [Notes](#), [ppt](#)
- Practice - [Law of Superposition](#)
- [Core Samples- Candy Bar Activity](#)

- Practice: [Core Samples](#)
- [Playdoh Mountains/Topo Maps](#)
- Practice: [Topo Maps](#)

Plate Tectonics, Earthquakes, & Volcanoes

[top](#)

Big Ideas:

Plate tectonics accounts for important features of Earth's surface and major geologic events.

Earthquakes result from sudden motions along breaks in the Earth's crust and can affect landforms and societies.

Volcanoes are locations where molten rock reaches Earth's surface, and volcanoes can affect landforms and societies.

- Plate Tectonics [Notes & Plate Tectonics ppt](#)
- Earth's Layers - [Color](#)
- Tectonic Plates - [Color](#)
- [Pangea](#) - color, cut, and paste in order
- Plate Tectonics [Vocab](#)
- Plate Tectonics [Vocab](#)
- Plate Tectonics [Vocab](#)
- BrainPOP - Earthquakes handout
- [Plotting Earthquakes data](#)
- Plotting Earthquakes- [map](#)
- Earthquake [Notes & ppt](#)
- [Types of Waves Puzzle](#)
- Earthquake [Vocab](#)
- Earthquake [Vocab](#)
- Earthquake [Vocab](#)
- [P & S Waves Graph](#)
- [Calculating Time of an Earthquake](#)
- Volcano [notes & ppt](#)
- Volcano [Vocab](#)
- Volcano [Vocab](#)
- BrainPOP Volcano Sheet
- 5 Volcanoes research
- Pompeii Mini Page

Older Notebooks

- 2010-2011 - [Interactive Notebook](#)
- 2009-2010 - [Interactive Notebook](#)

- 2008-2009 - Lab Journal

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