Not loading correctly? Please click on the "Compatibility View" button if using the newest version of IE.

Middle School Science

a resource for grades 5 - 8

Chemistry | Earth Science | Life Science | Physics
5th Grade Science Notebook
Updating for 2012-2013

Units

Becoming a Scientist

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

Notebook Pages

- 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
**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**

**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

- 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
- 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
Chemistry

**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: Mendeleyev
- BrainPOP FYI: Language, Periodic
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.
## Minerals, Mining, & Rocks

### Big Ideas:

- 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

**Minerals, Mining, & Rocks**
Plate Tectonics, Earthquakes, & Volcanoes

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