Unit Lesson:

Matter, Periodic Table and Atomic Bonding

Georgia Online Assessment System Pre/Post Assessments

Wordle Unit Vocabulary Poster

Blabberize Science Project, Web publishing

WhatsApp Science Project, Video









Lesson Overview

Students gain an understanding of science terms and atomic structures by learning the organization of the periodic table and element properties. Students acquire appropriate science content vocabulary skills for speaking, reading and writing.

Students will identify electronic configuration, atomic properties, and substance stability according to element groups and their location on the periodic table. Students will also gain an understanding of compounds and bonding, covalent and ionic bonding. Students gain skills in use of microscopes, Web 2.0 publishing tools, and use advance writing skills for science description reporting during this learning process.

Support appropriate writing skills and the practice of accurate application of punctuation, grammar, and syntax skills such as those targeted in Language Arts.

Worksheets (formative, classwork grade)

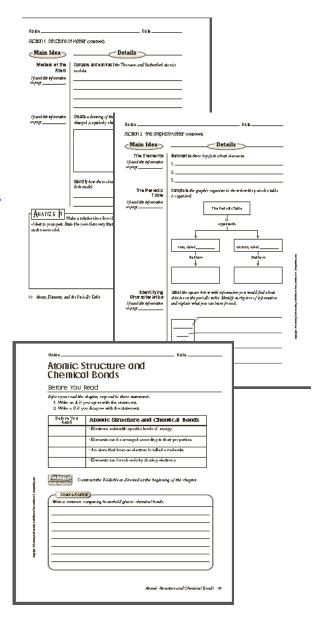
The Atom

PDF, pages 30, 50, 53, and 59 available at:

http://www.glencoe.com/sites/common_assets/science/workbooks/georgia/ga8sn 2.pdf)

Pure elements and the Periodic T able PDF, pages 31, 32, 45, 58, 74, and 63 available at: http://www.glencoe.com/sites/common_assets/science/workbooks/georgia/ga8sn2.pdf

Compounds and Mixtures & Bonding (Part 1 and 2) PDF, pages 35 – 37, and 66 -70 and 79, available at: http://www.glencoe.com/sites/common_assets/science/workbooks/georgia/ga8sn2.pdf



Science Projects

Periodic Paper Box Model

Construction of a paper box to model one table element, the multiple faces of the paper box designed by the student to show:

Atomic symbol, atomic weight, atomic mass, and element name

Atomic dot diagram (shells, electrons, and nucleus)

Atomic physical and chemical properties

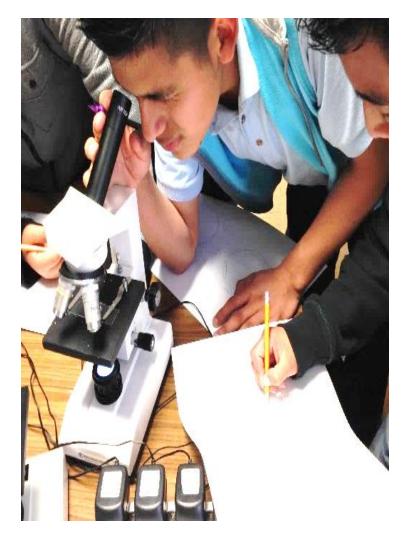
Reason student made their element selection

Web publishing for an outside audience and an online student academic artifact

Science Project:

Mixture of hot water and salt, students observe salt dissolves. The mixture of dissolved salt and water is left out for the evaporation process to occur. The remaining ice crystals are viewed under the microscope, and observed for the purpose of witnessing the formation of crystals and providing a written description and drawing of that which can be observed under the microscope for entries in student science journals.





Students Pure Element Paper Box Models and Salt Chrystal Observations

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Pre/Post Assessments





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Parents Schools Training Support



.earn more about:

- Georgia State Assessments
- Georgia Standards

The Georgia Department of Education (GaDOE) is pleased to continue providing the 2013-2014 release of the Georgia Online Assessment System (OAS). The OAS represents a dedicated resource for schools, districts, classroom teachers, students and parents that allows for ongoing classroom instruction and student learning. This site allows educators to have access to test items aligned to the state mandated curriculum to develop assessments that inform teaching and learning. It allows students and parents transparency on the expectations placed on students relative to improving student achievement. This system is another resource available and designed to help all Georgia educators, students and parents as part of our common goal in Making Education Work for All Georgians.

OAS for Administrators:

The OAS has a System Level (Level 3) access designed for district benchmarking. System Level access allows district administrators to create tests using items that are in a separate pool than those available to teachers and can be assigned to an entire district by grade level. There are additional reports for system tests that are aggregated by student, teacher, building, and district level. By assigning district-wide assessments, all teachers and administrators can share common reports and dialogue on instructional strategies with data that is scaffolded across all levels of administration.

OAS for Teachers:

Teachers can use the OAS as a tool for Assessment for Learning. Student results on assessments help teachers identify learner needs and strengths and inform instructional practices. Robust reports also allow teachers to communicate with students and parents about learner goals, intentions, and outcomes. The OAS helps with a cycle of assessments, instruction, feedback, and communication that allows teachers, students, and parents to be confident with instructional success.

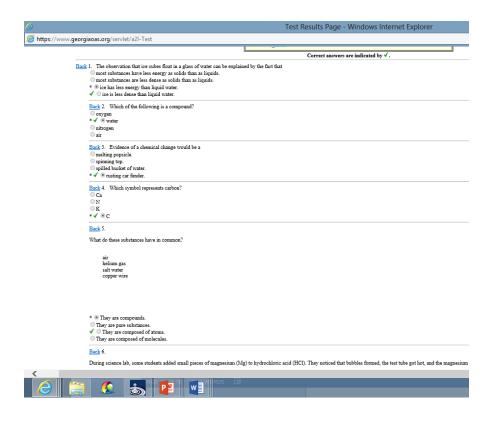
OAS for Students:

The OAS enables students in Georgia's public schools to access tests that consist of the

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Georgia State Assess
 Georgia Standards

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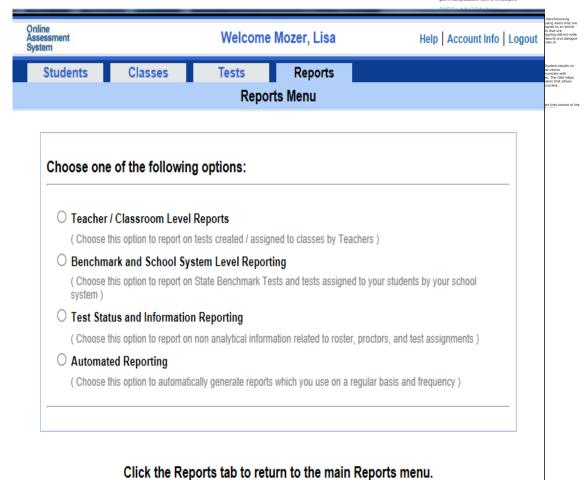
OAS Georgia Online Assessment System

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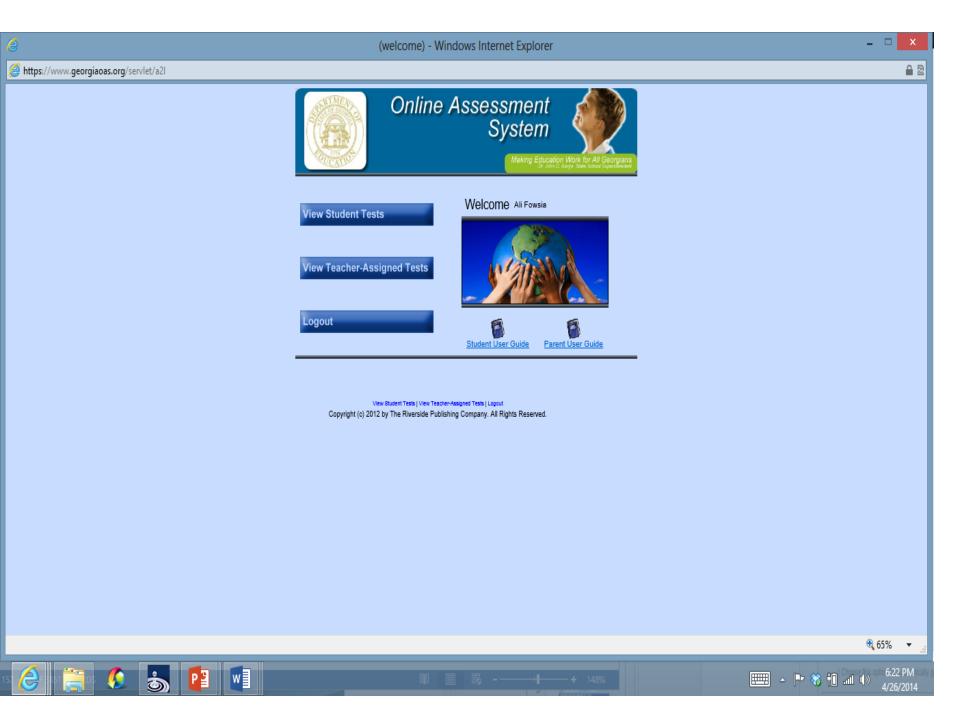
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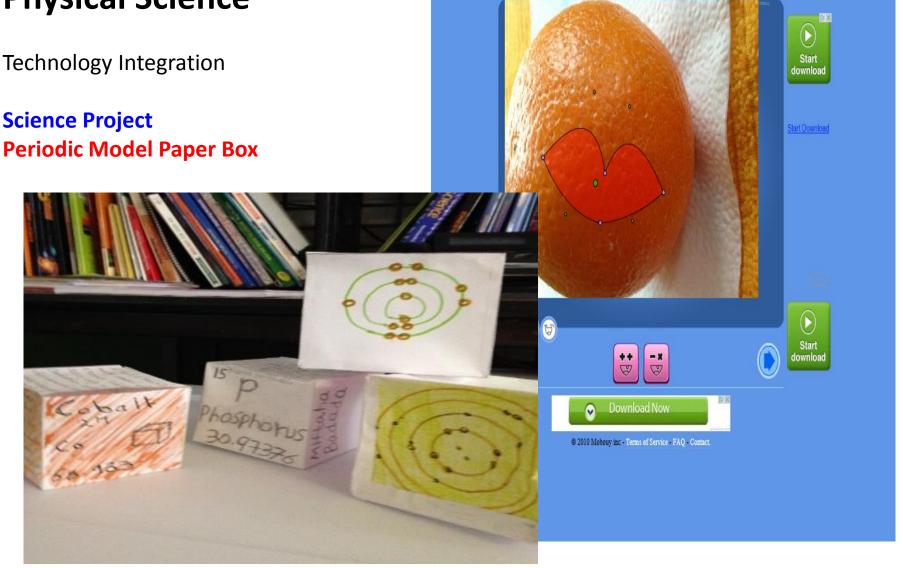


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Technology Integration

Science Project



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Wordle

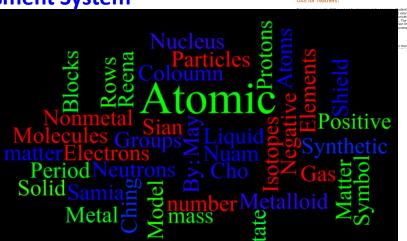
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Online Assessment





