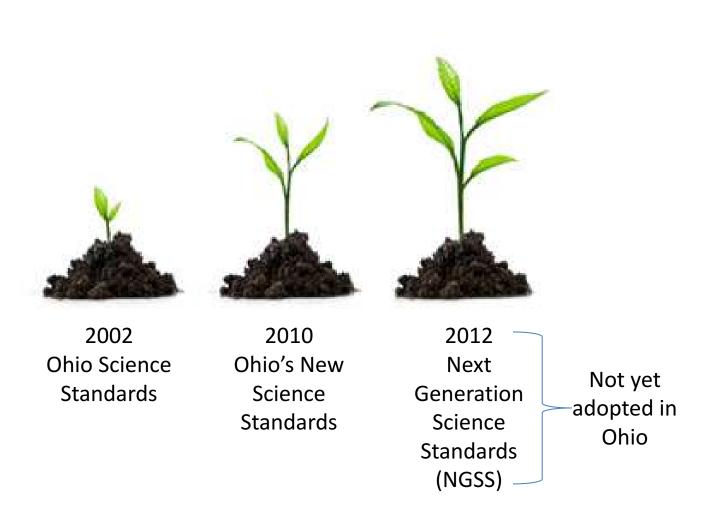


Change

Science Standards



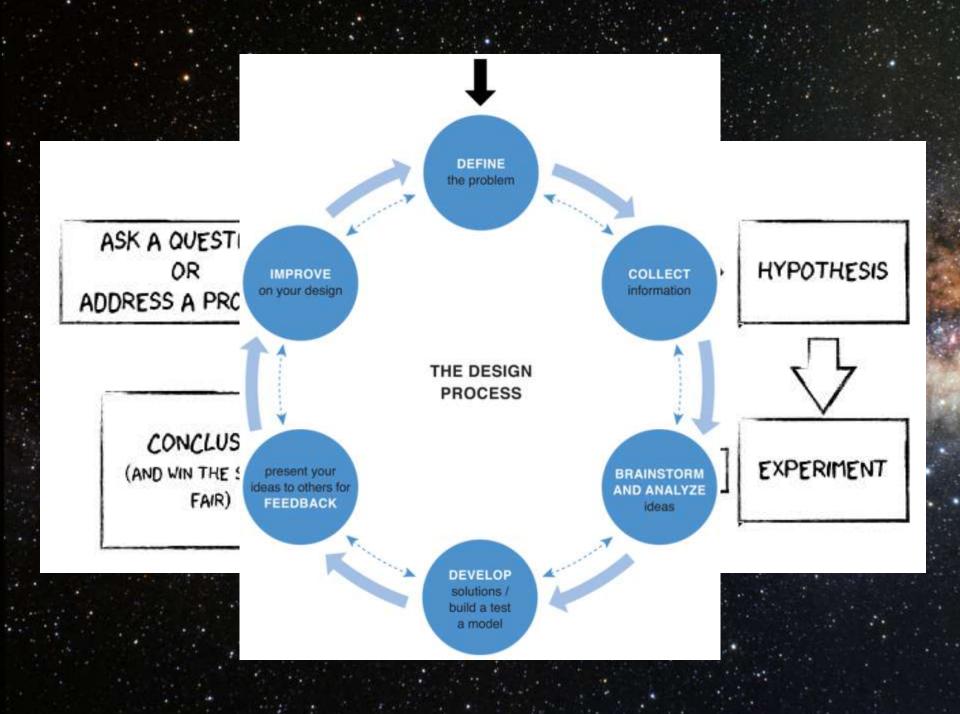
Where are we in Worthington?

- Grades K-10 are currently teaching the 2010 Ohio's New Science Standards
- Grades 5, 8 and 10 are still accountable to 2002 standards for the 2014 OAA/OGTs
- The 2014 OAA/OGTs are dual aligned to the 2002 and 2010 science standards.

Levels of Inquiry

	Inquiry Level	Question	Procedure	Solution
1	Confirmation Inquiry – Students confirm a principle through an activity when the results are known in advance.	\checkmark	\checkmark	\checkmark
2	Structured Inquiry – Students investigate a teacher presented question through a prescribed procedure.	\checkmark	\checkmark	
3	Guided Inquiry – Students investigate a teacher presented question using students' designed/selected procedures.	\checkmark		
4	Open Inquiry – Students investigate questions that are students formulated through students designed/selected procedures.			

Source: Rezba, R.J., T. Auldridge, and L. Rhea. 1999. Teaching & learning the basic science skills



Course Overview

- General Science Curriculum
 - Earth and Space Science
 - Life Science
 - Physical Science

- Content Specific Courses
 - Regular, Honors, STEM
 - Physical Science
 - Biology
 - Chemistry
 - Natural Systems Science (NSS)
 - AP Biology
 - AP Chemistry
 - AP Environmental Science
 - AP Physics

Course Overview

- English Language Arts integrations
 - Formally grades 6-12
 - Reading and Writing in Science
 - Informational text
 - Primary sources
 - Supporting claims, arguments and counter arguments with research, primary sources and personally gathered data.

Resources



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Science Resource Work

Earth and Space Science

Content Statement	Progressing	Meeting	Exceeding
Minerals have specific, quantifiable properties		Mineral Identification-Ck12 This goes into the different ways of identifying mineral. Mineral information-Ck12 This is a quick fact sheet for mineral identification. Minerals-Ck12 This goes into what are minerals and how they are formed. Minerals, Rocks and Soil-ScienceA-Z This A to Z book is an introduction to rocks, minerals and soil. Minerals Study Guide-Ck12 This is a study guide to minerals.	Minerals-ck12 This goes into the grouping of minerals by subgroups. Everything highlighted in yellow goes deeper into the content.

March 1, 2014

Thomas Worthington H.S. 300 W. Dublin-Granville Rd Worthington, OH 43085

Kindergarten through Grade 12

Worthington









Worthington.k12.oh.us/ScienceDay

- Invention Convention
- Design Challenge

Register online at: thington k12.ch.us/Sci

Phone: 614-450-6025 E-mail: bgeniusz@worthington.k12.oh.us



Students use the engineering design process to solve a problem based upon real world needs.

The Worthington Science Day is designed to help students:

- Learn and practice critical thinking, inquiry, technological design and investigative skills.
- Learn research methods and encourage the development of research techniques - obtain data, keep a research log or notebook, learn graphing and develop conclusions.
- Foster imagination and creative thought.
- Develop organizational skills.
- Work independently as well as in a group.
- Enhance communications skills.
- Meet others interested in science study.
- Earn recognition for academic excellence.

