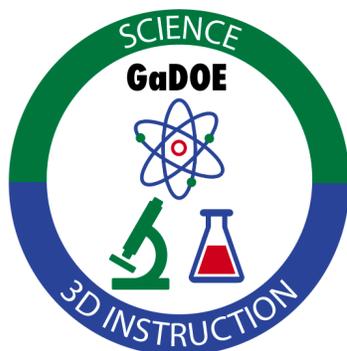


What's New with Science

Online module for science instruction

ON-DEMAND PROFESSIONAL LEARNING

We are excited about an online module for science instruction that is posted on the SLDS platform. The course is short and designed to highlight key components of the Georgia Standards of Excellence. The course can be completed individually or as part of your PLCs; inside the course, you will find resources to support your science teaching.



Steps to sign up:

1. Go to SLDS
2. Click on PL tab
3. Search for course and self register



Fourth Science Courses

NEW SCIENCE ELECTIVES

In July, the Georgia State Board of Education approved the Georgia Standards of Excellence for the following courses

- Astronomy
- Botany
- Ecology
- Entomology
- Epidemiology
- Forensic Science
- Geology
- Human Anatomy & Physiology
- Meteorology
- Microbiology
- Oceanography
- Zoology

The 2019-2020 school year will be utilized to inform educators of the new standards. **These Science GSE courses should be implemented during the 2020-2021 school year. The standards can be viewed on the [Science Georgia Standards of Excellence site.](#)**

All About Instruction

What's the Big Deal with 3D?

WE HAVE NEW SCIENCE STANDARDS—HOW HAVE THINGS CHANGED?

While content may be similar to GPS for your grade/course, there are instructional pieces that are new with the GSEs.

What is 3D science? The 3D refers to the three dimensions of our standards that are integrated simultaneously in our instruction:

Dimension 1: Science and engineering practices: simply put, this is what students are doing as they engage with science content. Each individual standard starts with one of eight science practices.

An example from 7th grade:

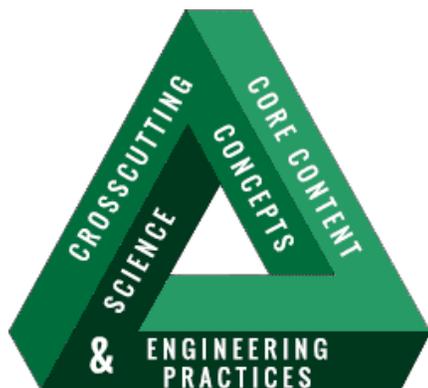
S7L3. Obtain, evaluate, and communicate information to explain how organisms reproduce either sexually or asexually and transfer genetic information to determine the traits of their offspring.

Construct an explanation supported with scientific evidence of the role of genes and chromosomes in the process of inheriting a specific trait.

“Construct an explanation” is the science practice for this standard; but students are also engaged with the practice of obtaining, evaluating, and communicating information. The eight science and engineering practices are the same for K-12 science classes. See this [link](#) for graphic organizers to support students using the practices. Check out this [link](#) for more information on the practices.

Dimension 2: Crosscutting concepts: the big ideas that span science disciplines, like “energy and matter”. These can actually work as problem solving tools—check out this [link](#) for graphic organizers that can be put right in students’ hands. Check out this [link](#) for more information on the crosscutting concepts.

Dimension 3: Disciplinary core ideas: this is the core content for each grade level/course. Check out [Georgia Standards.org](#) to view. The three dimensions are based on [A Framework for K-12 Science Education](#).



Like the color-coded standards? Find the ones for your course/grade on the Teacher Resource Link (part of SLDS-essential toolkit) or by going [here](#) to the live link. Other released frameworks and resources can be found for every GSE course/grade here as well.

Frequently Asked Questions

Exploring the GSE

A list of common questions from educators and clarification statements have been collected since the new standards were first implemented during the 2017-2018 school year. A common practice to guide clarifications is to refer to [A Framework for K-12 Science Education](#).

The document is linked [here](#) and will be updated periodically.

Communications

Interested in receiving future newsletters from GaDOE science?

Future newsletters will only be sent through our email lists. Sign up by sending a blank email to one or all of the following addresses. You will receive a confirmation email after signing up.

K-5: join-science-k-5@list.doe.k12.ga.us

6-8: join-science-6-8@list.doe.k12.ga.us

9-12: join-science-9-12@list.doe.k12.ga.us

Assessment

Updates

With new standards come updated assessments. The biggest change has been that every EOC and EOG item contains the science practice from the standard. Test items are no longer just content-based; we are now assessing students on the use of the science practices. As a result, all science teachers support students for Milestones success. If students build capacity with using the science practices in non-assessed subjects, the experiences and skills will transfer.

[Updated documents and resources for Milestones.](#)

Contact Us:

GaDOE Science

Amanda Buice

Science Program Manager

abuice@doe.k12.ga.us

(404) 657- 8319

Keith Crandall

Science Program Specialist

kcrandall@doe.k12.ga.us

(404) 657-0182

Renee Shirley-Stevens

Content Integration in Special Education Specialist for Science

Renee.Shirley-Stevens@doe.k12.ga.us

(404) 463-1932



@GADOEScience