

# SCIENCE RESOURCES FROM THE MISSISSIPPI DEPARTMENT OF EDUCATION



**EXPAND YOUR  
EDUCATOR TOOL KIT**



MISSISSIPPI  
DEPARTMENT OF  
EDUCATION



# START EXPLORING

The Mississippi Department of Education has partnered with Gale to provide on-demand science resources for all middle and high schools.

Discover the benefits of greater access to high-quality information and tools that complement classroom instruction in science-related subjects. Together, this offering of digital resources helps educators ensure equitable and personalized learning opportunities and empowers students to learn about real-world issues related to scientific disciplines across the curriculum.

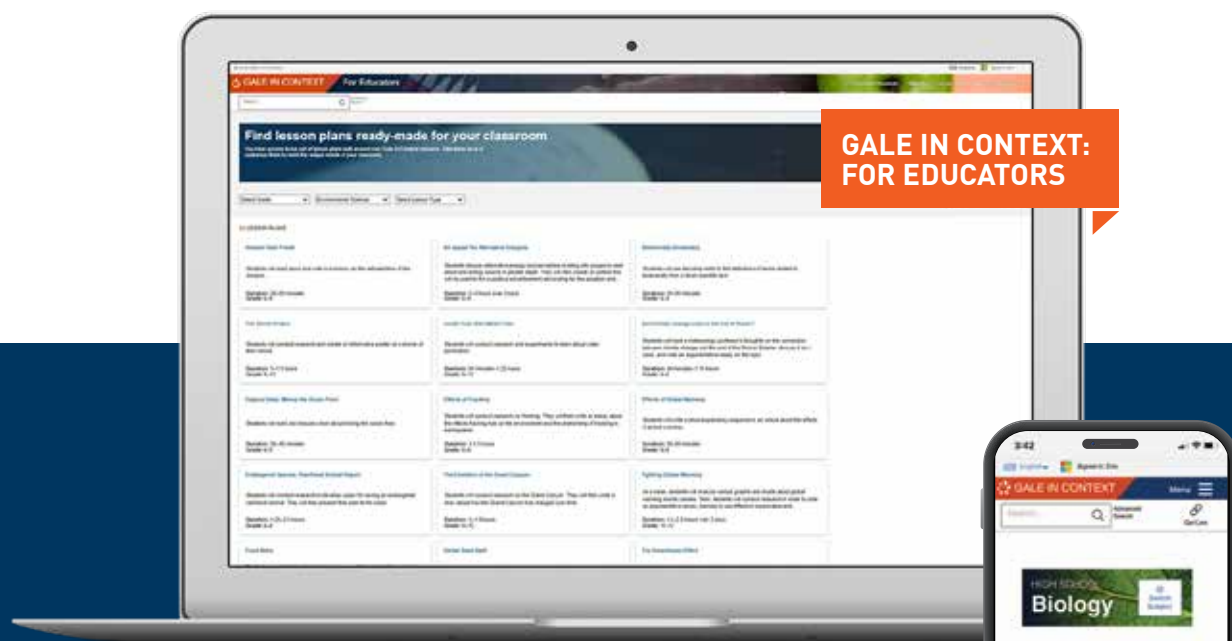


# GET THE EXTRA SUPPORT EXTRAORDINARY EDUCATORS DESERVE

With on-demand training and personalized instruction tools, *Gale In Context: For Educators* allows you to put the needs of you and your students first. This award-winning resource works alongside *Gale In Context* student resources to help you focus on daily and long-term goals, like saving time; collaborating with colleagues more effectively; and supporting curriculum with instructional content, class activities, and lesson plans aligned to national and state standards.

## How *Gale In Context: For Educators* can help you transform day-to-day instruction:

- Add rigor to instruction and increase student engagement with premium informational texts and multimedia, including book articles, newspapers, videos, images, academic journals, and primary sources.
- Leverage a single access point to find the best resources for your students from across subscribed *Gale In Context* student resources.
- Browse curated informational texts, multimedia resources, and learning activities by elementary, middle, and high school course subjects.
- Access resources by Lexile, find leveled content on high-demand topics, and use other features to differentiate lesson plans and activities.



## FUELED BY GALE IN CONTEXT STUDENT RESOURCES

Change the way you approach lesson planning. Save time searching for topical, authoritative reference content. Integrate media-rich information directly from your school's *Gale In Context* resources, including *Gale In Context: Environmental Studies* and *Gale In Context: Science*.

A user-friendly, mobile-responsive design means you can easily find and share content with students, wherever you are.

Product screen capture as of March 2022. Actual interface may vary.

# ACCESS PREMIER DIGITAL CONTENT

Current, authoritative, media-rich information — you'll find it in *Gale In Context* student resources. *Gale In Context* meets the needs of today's learners with a user-friendly, mobile-responsive design, and seamlessly integrates trusted content with materials aligned to support both national and state curriculum standards.

## FOCUS ON TOMORROW'S WORLD TODAY

***Gale In Context: Environmental Studies*** provides users with comprehensive information, empowering learners to critically analyze and understand important topics that affect people around the world. From climate change to automobile emissions, today's environmental issues determine the destiny of tomorrow's world. Explore topics and events within Earth systems, energy, global change, pollution, populations, and more.

**How *Gale In Context: Environmental Studies* helps students understand the impact of human interaction with the environment:**

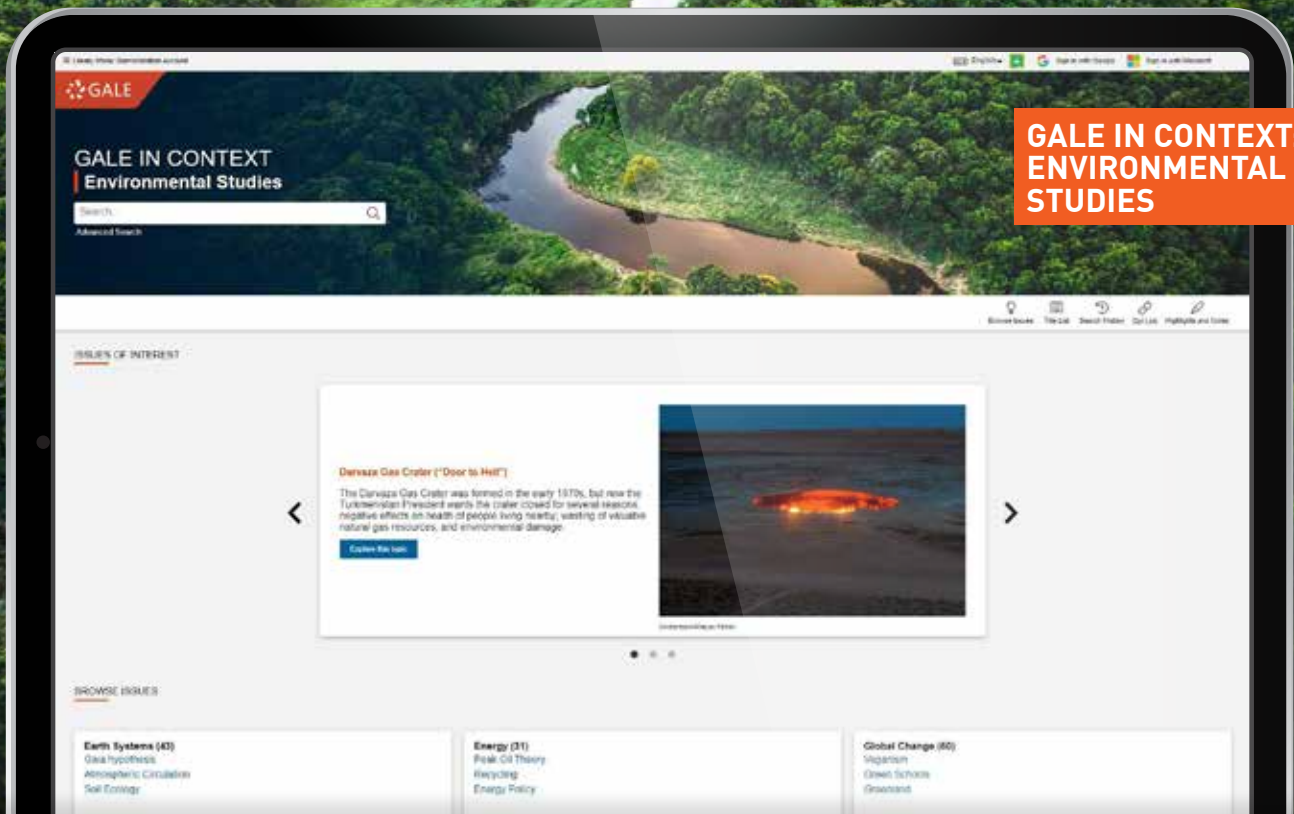
- Access diverse, authoritative content from national and global publications in addition to award-winning Gale reference content.
- Study environmental and sustainability issues across science, social studies, and the humanities.
- Find over 400 topic, state, and province pages geared to advanced placement and international baccalaureate environmental curriculum, including Renewable Energy, Ecotourism, Air Pollution, Green Economy, and more.

## EXPLORE THE SCIENCE UNFOLDING AROUND US

***Gale In Context: Science*** is an engaging online resource that provides in-depth contextual information on hundreds of today's most significant science topics. From genetically modified organisms to fracking, the wealth of content in Science spans the fields of biology, chemistry, physics, Earth and environmental science, health and medicine, and math and technology. Go beyond research projects and choose from over 350 experiments in 200 entries to assign during everyday instruction, enabling hands-on learning anywhere students have online access.

**How *Gale In Context: Science* enhances science instruction:**

- Access over 300 interactive simulations to supplement classroom labs and engage students, allowing them to run a simulation, change the variables, and run it again to compare results—all in an online environment.
- Explore varied concepts, such as homeostasis, circuits, radioactive decay, chemical equations, force, energy, and more.
- Browse content that supports Next Generation Science Standards (NGSS) and state science standards by providing credible information from which students can build their science literacy.



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# EXTEND THE REACH OF YOUR RESOURCES WITH ADVANCED PLATFORM TOOLS

## AUDIO AND TRANSLATION

Accommodate diverse backgrounds with ReadSpeaker text-to-speech technology and on-demand article translation into over 40 languages.

## CITATION TOOLS

MLA, APA, Chicago, and Harvard style citations are supported and can be integrated directly into the user's workflow. Formatted citations can be easily exported from single or multiple documents to services like EasyBib or NoodleTools.

## HIGHLIGHTS AND NOTES

Organize, save, and share highlights and annotations.

## SEARCH FUNCTIONS

Search by Lexile range or content level to find resources at an appropriate level of complexity.

## CURRICULUM-ALIGNED CONTENT

Use *Gale In Context: For Educators* to align content from *Gale In Context* resources to state and national curriculum standards.

## LMS INTEGRATION

Educators can access and embed Gale content within their learning management system (LMS) to expand access and increase discovery.

➔ Learn how to use your Gale resources most effectively at [gale.com/msdoe](https://gale.com/msdoe)

# LEARNING COMES ALIVE WITH GALE INTERACTIVE

*Gale Interactive* resources help students dive deeper into complex scientific concepts by encouraging them to explore and play on this easy-to-use, engaging platform. Clicking through each session reveals content to search across or to discover additional support materials. Perfect for in-classroom demonstrations or independent study, students can zoom, rotate, and analyze 3D models to engage with science beyond reading static text.

## DISCOVER NEW SOLUTIONS

***Gale Interactive: Chemistry*** engages students and aids comprehension by pairing reference material with manipulatable 3D models. Aligned to the scope and sequence of introductory and intermediate college classes, this resource helps students visualize and explain key concepts, like the periodic table, molecules and compounds, reactions, and chemical processes.

- Use guided, interactive lessons that match course objectives and better prepare students for future college science courses with a flexible and robust learning experience.
- Encourage students to study assigned sessions and quizzes at their own pace, repeating as necessary to strengthen understanding. This helps students come to class better prepared before each lecture.

## EXPLORE ANATOMY FROM EVERY ANGLE

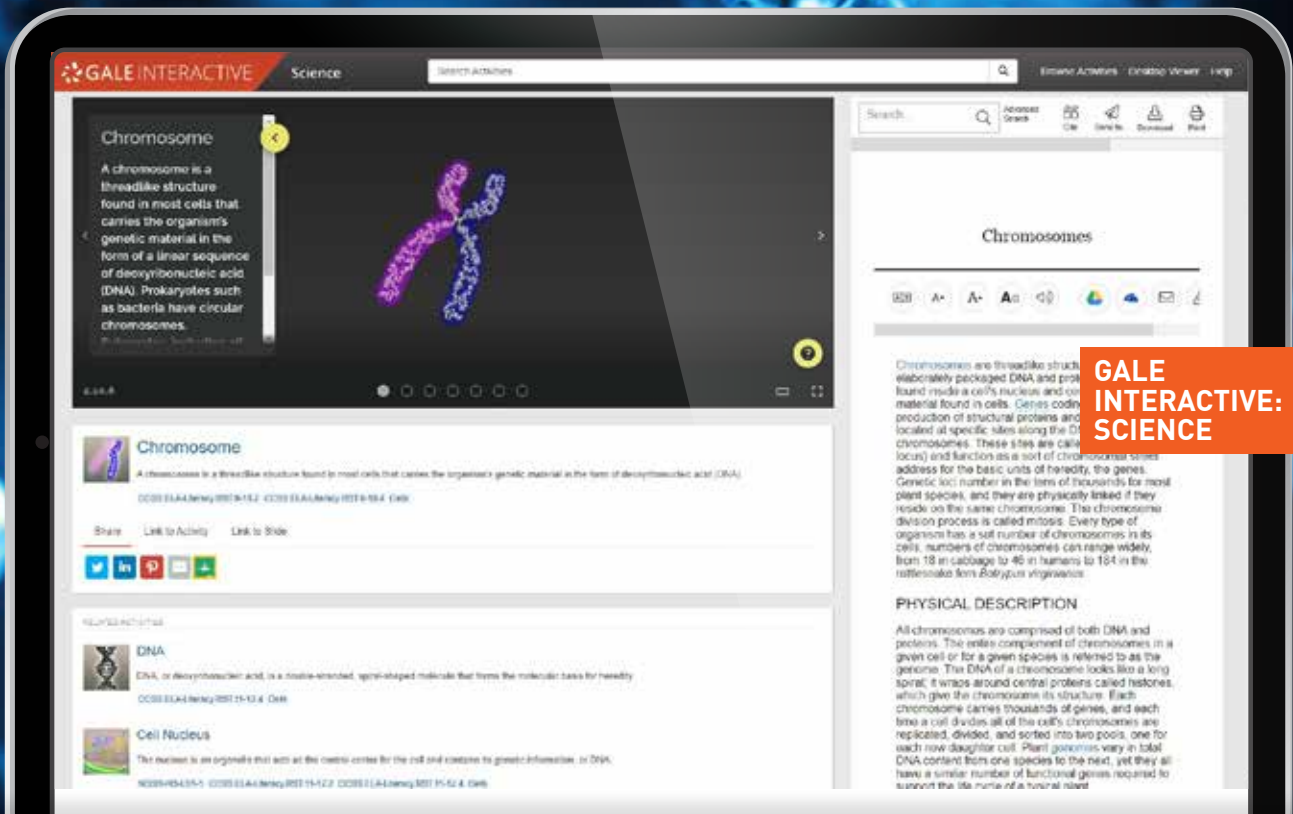
***Gale Interactive: Human Anatomy*** is an innovative learning aid that gives students the opportunity to examine virtual 3D dissections and immerse themselves in interactive research. State-of-the-art technology supports student engagement with core concepts and required lessons.

- Increase student engagement, comprehension, and retention of complex human anatomy concepts.
- Access powerful tools for in-classroom demonstrations or help with homework and research assignments.
- Explore topics in-depth that are aligned to the scope and sequence of introductory college classes to prepare students for success beyond middle and high school.

## BRING THE LAB TO LIFE

***Gale Interactive: Science*** pairs high-quality digital content with interactive 3D models and empowers instructors to lead virtual science labs and lessons. This hands-on approach allows students to entertain their curiosity and stay engaged with complex science topics—ultimately leading to improved test scores and greater confidence.

- Enhance live and virtual instruction for middle and high school students with guided activities and self-check questions.
- Examine complex concepts, such as the solar system, water cycle, chemical reactions, animal and plant cells, and dissection.
- Access more than 200 interactive science lessons correlated to Next Generation Science Standards (NGSS) and state standards, covering science curriculum topics in biology, chemistry, and earth sciences.



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# INTERACT WITH SCIENTIFIC CONCEPTS LIKE NEVER BEFORE

## A FULLY INTERACTIVE EXPERIENCE

Delve deep into concepts with tools to zoom, rotate, and explore models.

## AUTHORITATIVE RESEARCH CONTENT

View relevant reference content from Gale for further study and research.

## ACCESS AT SCHOOL OR HOME

Extend the reach of your resources within the classroom and beyond with apps that are easy to use on a desktop or tablet.

## CITATION TOOLS

MLA, APA, Chicago, and Harvard style citations are supported and can be integrated directly into the user's workflow. Formatted citations can be easily exported from single or multiple documents to services like EasyBib or NoodleTools.

## HIGHLIGHTS AND NOTES

Organize, save, and share highlights and annotations within content.

➔ Learn how to use your Gale resources most effectively at [gale.com/msdoe](https://www.gale.com/msdoe)

Gale is a global provider of research and learning resources. For K-12 schools, we develop essential, curriculum-aligned content that empowers educators to solve curriculum challenges, keep students engaged in learning, and help schools curate a virtual eBook library. Today, this includes supporting distance and social and emotional learning (SEL) as well as equity and inclusion goals.

## WHAT'S NEXT?

Get ready to explore your school's on-demand science resources!

Visit [gale.com/msdoe](https://gale.com/msdoe) to access your resources or get additional support.

