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**R U READY?**

**DIGITAL CURRICULUM & TOOLS FOR THE 21<sup>ST</sup> CENTURY**







INTRODUCING



**expert space**

## Digital Curriculum & Tools for the 21<sup>ST</sup> Century

**Transform the way your students:**

- **Build content-area knowledge and expertise.**
- **Plan and complete projects and assignments.**
- **Develop 21<sup>st</sup> century information literacy skills.**

**Anytime, anywhere access, including at home!**





# BUILD DEEP KNOWLEDGE WITH LEVELED CONTENT

Reading scaffolds ensure all students can access content.

The screenshot shows the Expert Space website interface. At the top, it says 'expert space POWERED BY GROlier ONLINE'. Below that is a search bar and navigation links. The main content area is titled 'My Work Zone: Solar System' and features a 'Table of Contents' and a 'Reading level' selector with options 1, 2, 3, and 'en Español'. The article 'The Solar System' is displayed with a large image of the Sun and a text block that begins: 'Imagine you are on a starship deep within interstellar space, heading toward the solar system where Earth resides. As you approach from tens of billions of miles away, the Sun would appear to grow ever brighter. Eventually you would detect Earth as a faint pinpoint of light. If you observed for long enough, you would notice that Earth follows a wide path around the Sun. You would also see, at various distances from the Sun, seven other objects of various sizes. You might detect that many of these planets are circled by still smaller objects. These are their moons. You might also spot three tiny dwarf planets. In the space between the orbits of two of the planets, Mars and Jupiter, you would see thousands of very small "planets," or asteroids, also revolving around the Sun. You might even spot a few comets, their long tails slicing across space.'

Match students to text they can comprehend with articles written at three reading levels. All articles are leveled according to the Lexile Framework® for Reading.

Ensure that reluctant readers and students with learning disabilities can participate in content-area learning with a read-aloud tool.

Support English language learners with content written in Spanish.

A comprehensive collection of articles, videos, Web links, and more deepen learning.

Engage, motivate, and build background knowledge with Anchor Videos.

The video player shows a 3D illustration of the solar system with the Sun in the background and planets in the foreground. A 'LAUNCH VIDEO' button is overlaid on the image.

The card is titled 'The Sun and Planets' and includes a list of sub-topics: 'The Sun', 'The Inner Planets', 'The Outer Planets', and 'Explore More!'. It also features a 'Project Idea' button and an image of Saturn.

Reflect on learning and showcase students' expertise with Project Ideas.

The timeline shows the history of solar system discovery from the 2nd Century B.C. to 1840-2010. A callout box for the 2nd Century B.C. highlights the Greek astronomer Hipparchus, stating: 'Greek astronomer Hipparchus creates his model of the universe. He places Earth at its center.'

Foster curiosity with interactive timelines, images slideshows, primary sources, maps, and more.

The card lists several recommended websites for learning about the solar system, including 'Inside Our Discover Space: The Science' and 'NASA's Solar System Exploration: Kids'. Each link includes a brief description and a 'Save' button.

Help students use Web sites strategically with vetted, relevant Web links.



Organized around the most commonly taught, researched, and studied topics.



## EARTH SCIENCE

- > Volcanoes
- > Earthquakes
- > Continental Drift
- > Geologic Time
- > Oceans of the World
- > Extreme Weather
- > Climates of the World
- > Rocks and Minerals



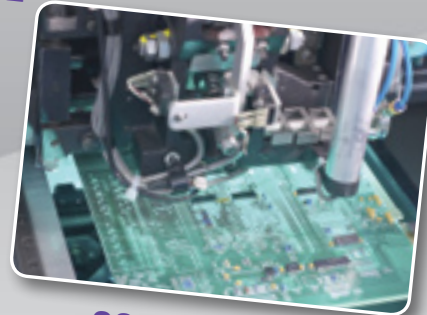
## HUMAN BODY

- > Systems of the Body
- > Senses
- > Disease
- > Nutrition
- > Human Behavior
- > Exercise and Fitness
- > Forensic Science



## PHYSICAL SCIENCE

- > Atoms and Molecules
- > Elements
- > Chemical Reactions
- > Water
- > States of Matter
- > Gravity and Gravitation
- > Forces and Motion
- > Simple Machines
- > Light
- > Sound
- > Fossil Fuels
- > Alternative Energy



## SCIENCE AND TECHNOLOGY

- > Computers
- > Communication Technology
- > Transportation
- > Scientific Method
- > Inventors and Inventions
- > Tools of the Scientist
- > Careers in Science



## LIFE SCIENCE

- > Cells
- > Life Cycles
- > Animal Behavior
- > Animal Kingdom
- > Prehistoric Animals
- > Plant Science
- > Plant Kingdom
- > Biomes
- > Conservation
- > Endangered Species
- > Global Warming and Climate Change



## ASTRONOMY

- > Solar System
- > Earth: The Home Planet
- > Stars
- > Space Exploration



## WORLD HISTORY

- > Medieval World
- > Exploration and Discovery
- > Industrial Revolution
- > World War I
- > Rise of the Dictators
- > World War II and the Holocaust
- > 21<sup>st</sup> Century World



## ANCIENT CIVILIZATIONS

- > Ancient China
- > Ancient Egypt
- > Ancient Greece
- > Ancient Rome
- > African Kingdoms and Empires
- > Inca, Aztec, and Maya



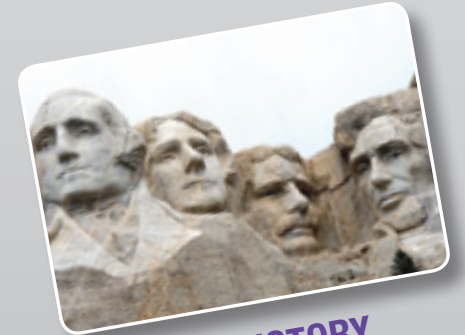
## WORLD GEOGRAPHY

- > Our World
- > Continents
- > Human Populations
- > Cultural Connections
- > Science and Society
- > United States
- > American People
- > Mexico
- > Western Europe
- > Africa
- > East Asia
- > Australia and the Pacific World



## GOVERNMENT AND ECONOMICS

- > Democracy and the U.S. Constitution
- > U.S. Elections
- > U.S. Presidents
- > U.S. Government
- > U.S. State and Local Governments
- > Citizenship
- > Basic Economics



## U.S. HISTORY

- > Native Americans
- > European Empires in North America
- > Thirteen Colonies
- > Colonial Life in America
- > American Revolution
- > Young Republic
- > Westward Movement
- > Immigration
- > Slavery
- > U.S. Civil War and Reconstruction
- > Wild West
- > Roaring Twenties
- > Great Depression
- > World War II: America At War
- > Cold War
- > Civil Rights Movement
- > Vietnam War Era
- > Women's Rights Movement



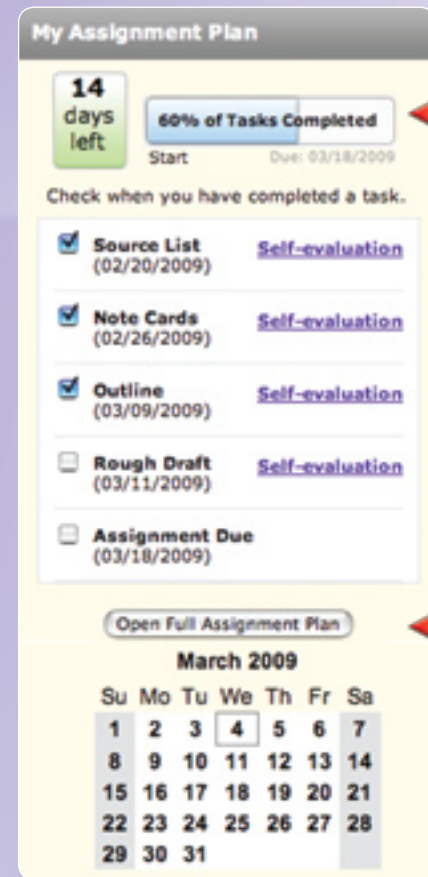
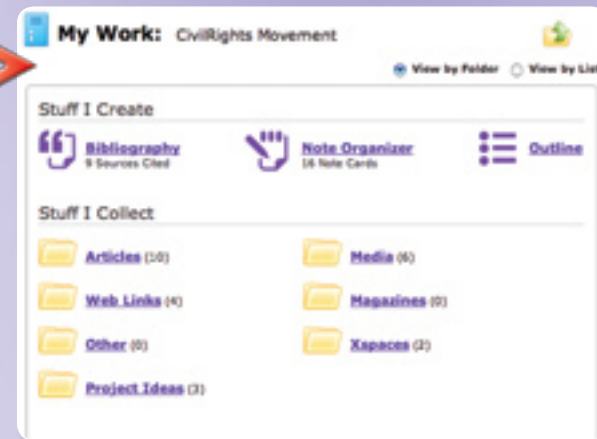
# SUPPORT 21<sup>ST</sup> CENTURY INFORMATION LITERACY

Productivity tools develop goal setting and skill building.



Model best practices in key information literacy skills with animated Skill Builder videos on searching, evaluating sources, note taking, citing sources, and setting goals.

Refine critical organizational skills by saving relevant articles, Web links, note cards, and other work to a personal digital locker.

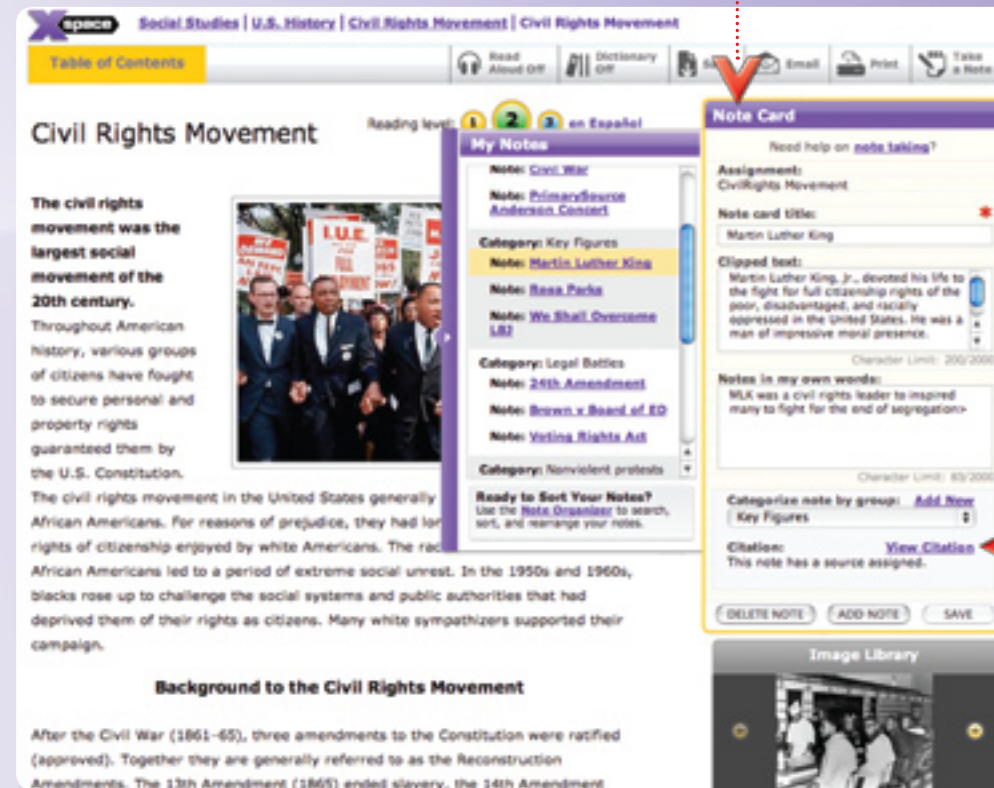


Develop time-management skills with automatic status updates and “what’s next” prompts.

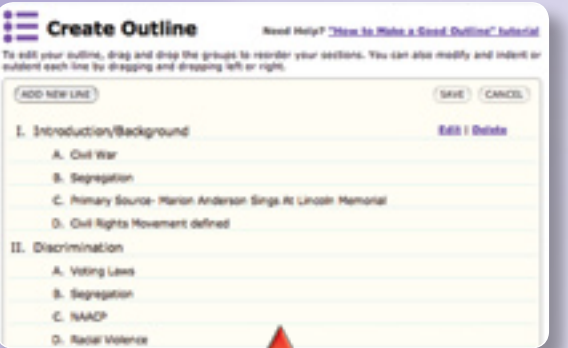
Enable students to set goals and track progress with a personal calendar and assignment plan.

Students learn to synthesize, organize, and cite information accurately.

Learn to synthesize and record information and cite sources with the personal Note Card tool.



Categorize note cards and evaluate the information collected with the Organize Notes tool.



Organize content and begin to think about how to present information using the Create Outline tool.

Create citations in one of three formats—Chicago Manual of Style, APA, or MLA—and begin to populate a bibliography.



# BASED ON RESEARCH

## Meet the Expert Space Advisory Board

### Lead Researcher and Designer



**Dr. David Rose**  
 Founding Director/Chief Scientist  
 Cognition and Learning  
 Center for Applied Special Technology (CAST)

### Contributors

**Dr. Isabel Alvarez-Borland**  
 Professor of Spanish  
 College of Holy Cross

**Dr. Milton Chen**  
 Executive Director  
 George Lucas Educational Foundation

**Dr. William Daggett**  
 President  
 International Center for Leadership  
 in Education (ICLE)

**Steve Gano**  
 Director of Technology  
 National Center for Science Literacy,  
 Education, and Technology  
 American Museum of Natural History

**Dr. Ted Hasselbring**  
 Professor of Special Education Technology  
 Peabody College of Education  
 Vanderbilt University

**Nancy Hechinger**  
 Adjunct Professor  
 Interactive Telecommunications Program  
 New York University

**Dr. Shirley-Ann Key**  
 Associate Professor  
 Instruction and Curriculum Leadership  
 University of Memphis

# FACILITATE CONTENT-AREA AND 21<sup>ST</sup> CENTURY INSTRUCTION

## Curriculum-aligned education resources correlated to state standards.

**The Solar System**  
 Science Grades: 6-8  
 Standards Alignments:  
 McRel Level III: Science Standard 3; National Science Standards: NSS-8-4Earth and Space

CONTENTS: [Motivate and Focus](#) | [Build Interest](#) | [Assign Projects](#) | [Assess](#) | [Wrap Up](#)

**Time:**  
 Motivate and Focus: one 45-minute class period  
 Build Interest: three 45-minute class periods  
 Independent Research: 1-3 weeks  
 Wrap Up: one 45-minute class period

**Materials:**  
 • Computers with internet access; projector or interactive whiteboard (optional)  
 • xSpace leveled texts (online access or printouts)  
 • Printouts of project ideas for independent research

**Learning Objectives**  
 Students will:  
 • Discuss focus questions  
 • Review key vocabulary  
 • Watch an anchor video about the solar system  
 • Build knowledge about the solar system working together in small groups  
 • Complete one of the following projects independently or collaboratively:  
 • create a table listing the eight major planets and three of their unique properties  
 • review the history of the world's most famous comet, Halley's Comet  
 • write a formal five-page research paper on the first 50+ years of space exploration

**Academic Vocabulary**  
 approach (verb): to move nearer  
 collapse (verb): to fall down suddenly  
 detect (verb): to notice or discover something  
 impact (noun): the striking of one thing against another  
 source (noun): the place, person, or thing from which something comes

**Content Vocabulary**  
 asteroid (noun): a very small planet  
 astronomer (noun): a scientist who studies celestial objects  
 atmosphere (noun): the mixture of gases surrounding a planet or other celestial body  
 collide (verb): to crash together  
 comet (noun): a bright heavenly body consisting of a nucleus of ice and dust and a long, narrow tail of gas and dust  
 emit (verb): to release or send out  
 orbit (noun): 1. the invisible path of a celestial body around another body  
 solar (adjective): 1. to do with the sun

My Expert Space Educator Resources

**xSpace Lesson Plans**  
 Browse lesson plans filtered by your interests.

**xSkill Lesson Plans**  
 Browse lesson plans on 21st century skills.

**xSpace Project Ideas**  
 Browse project ideas by format or subject.

**Search Curriculum Standards**  
 Find Expert Space articles aligned to your state standards.

**Search by Lexile Level**  
 Match students to articles on their reading level.

My Expert Space Educator Resources | Project Ideas

Filter By Subject:  Filter By Category:  [Need Help?](#)

**Project Ideas**

- Social Studies: Ancient Civilizations**  
[Ancient Egyptian Funeral Customs](#)  
[A Pharaoh's Journal](#)  
[Trade Routes](#)
- Social Studies: World Geography**  
[E pluribus unum](#)  
[Make a Family Tree](#)  
[Population Bar Graph](#)
- Science: Life Science**  
[Songbirds and Birdsong](#)  
[A Behavioral Thought Experiment](#)
- Social Studies: Ancient Civilizations**  
[Taoism](#)  
[Silk Road Slideshow](#)

Support instruction in science and social studies, as well as information literacy skills, with lesson plans correlated to state standards.

Search for articles and other resources by state and national standards or Lexile level.

Browse the project idea library for homework assignments, in-class activities, or comprehensive projects.

Visit [www.scholastic.com/ExpertSpace](http://www.scholastic.com/ExpertSpace) to read Expert Space: A Summary of Research.