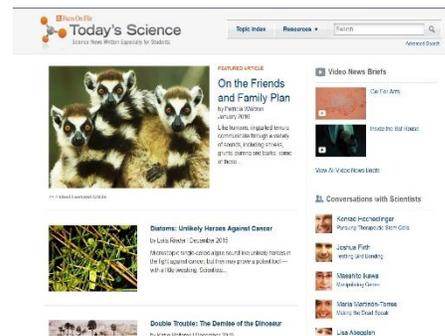


Today's Science



Educator's Guide

Today's Science bridges the gap between the science taught in class and science in the news. Written especially for students, this award-winning database provides your students with content that promotes critical thinking skills helping students to comprehend and analyze real-world science. Correlated to National STEM Standards, Common Core, state, national, IBO and provincial standards. *Today's Science* includes rich resources that will engage your students and encourage learning. Activities, articles, videos, experiments, encyclopedia articles, biographies of scientists, editorial cartoons, a pop-up glossary, images, diagrams, etc.... make *Today's Science* an excellent resource for understanding and reinforcing science learning, in and out of the classroom.



Today's Science provides in-depth coverage spanning important advances in biology, chemistry, environmental science, space, physics, and technology. An extensive back file illustrates how one scientific advance leads to another; the stories focus on the questions scientists ask themselves, and in doing so, reinforce science educators' traditional emphasis on the scientific method. *Today's Science* will help students to:

- ✓ relate what they learn in the Science classroom to the world outside
- ✓ read and learn about current science topics in the news
- ✓ utilize critical thinking skills in gathering facts, analyzing and discussing science topics
- ✓ learn about science in the news, past and present – for a historical understanding of a topic
- ✓ understand a concept, idea or process through the use of video, diagrams and other visual assets
- ✓ recognize and acknowledge source of information (citations)

Content:

Available 24/7, 365 days per year, *Today's Science* offers award-winning content anytime, anywhere! Articles, images, videos, timelines, data, experiments, charts, diagrams, and more, will help students as they research, investigate and learn about complex science subjects.

Highlights and features include:

- Unlimited, simultaneous access to all videos in collection 24/7
- Searchable Science Encyclopedia
- Original articles highlighting recent science topics
- Science Fair Guide
- Hundreds of short, information-packed science video clips
- Pop-up glossary
- 2,000+ extensive biographies from historic figures to modern-day innovators
- Discussion questions for each article, designed to encourage critical thinking
- Curriculum tools featuring activities, assignments, research tools and more!



Educator's Guide

- Thousands of editorial cartoons, images, diagrams, crossword puzzles and more!
- Diagrams, tables, charts with captions
- Conversations with Scientists
- Searchable standards by: National STEM, Next Generation Science Standards, Common Core, national, state, provincial, International Baccalaureate Organization, College Board AP and more
- Dynamic citations in MLA, CMS, and APA formats
- Tablet/mobile friendly videos from the library, school, or off-site

EDITORIAL CARTOON

Pluto: Dwarf Planet

Print Download Email Save Read Aloud



The following questions may be useful in helping students interpret the cartoon's message:

Special Features:

Located on the home page, the following features help teachers, educators, and students access the information they need quickly.

- ✓ **Featured article and more** – located on the home page, a featured article each month will highlight a newsworthy science topic. Additional articles on the home page provide some insight to other current science topics of interest. These articles can be a great start to a group discussion, debate, or topic for a research paper.
- ✓ **Conversations with Scientists** – located on the right side of the home page, “Conversations with Scientists” provide first-person accounts of recent breakthroughs. A short bio introduction, is followed by a Q & A interview format which makes for easy reading and interesting first-hand information.
- ✓ **Video News Briefs** – located on the home page, “Video News Briefs” offer short videos on intriguing science topics. Visually engaging and accessible by subject area, “Video News Briefs” can be a great introduction to a lesson or discussion.
- ✓ **Research Topics** – located on the home page under “Conversations with Scientists”, a list of “Research Topics” point the student/researcher to thought-provoking topics. Click on a topic and check out the cluster of related articles on each topic, along with related articles on the subject area. Students/researchers will find comprehensive information as they use this section as a starting point for research.
- ✓ **Support Materials** – Crossword Puzzles, Editorial Cartoons and a Glossary are included in the “Support Materials” section and will provide a creative way to engage students and help them to learn about science related topics. Students can use this section to learn about terms in the glossary, test their knowledge by working on a crossword puzzle, or challenge their thought process in understanding an editorial cartoon.
- ✓ **Topic Index** – Located on a tab at the top of the home page, the “Topic Index” lists main topics and subjects under those topics for quick access to related information.
- ✓ **Resources** - Located on a tab at the top of the home page, “Resources” for Students and Educators offer tips and information, while providing direction for students and educators in areas like: Students - writing a research paper, avoiding plagiarism, analyzing editorial

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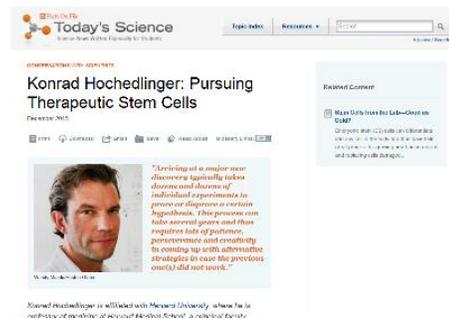


Educator's Guide

cartoons and more; Educators – assigning curriculum-based activities, conducting experiments, using primary sources in class, and more!

Don't miss....

“Conversations with Scientists” -Meet Konrad Hochedlinger, a professor at Harvard Medical School and an award-winning researcher in the area of stem cell research; meet Maria Martinon-Torres, a lecturer in the anthropology department at University College London, in Great Britain, and an expert on piecing together prehistoric remains to reconstruct causes of death, disease, culture and customs of our most remote ancestors. “Conversations with Scientists” is a personal look at people who are making a difference in the world of Science. These interviews are fascinating and provide students and researchers with an interesting perspective on the many different types of careers in the world of science.



Projects and Ideas for Educators – *Today's Science*

Today's Science will stimulate learning when used by students and educators for projects, research papers, essays, experiments, and Science Fair information. Here are a few suggestions on how to use *Today's Science* for projects both in and out of the classroom.

- **Create Editorial Cartoons**– Ask students to gather three science-related articles recently in the news. Review and discuss some of the cartoons in *Today's Science*. For an assignment, have students create their own editorial cartoons using information from the news articles they found. Have the students write three thought-provoking questions to go with the editorial cartoons they create. Share these cartoons with the class and start a good discussion about the science topic!
- **True or False** - Using *Today's Science*, have students choose a topic of interest from the “Research Topics” list, and find 10 fascinating facts on that topic. Ask students write each of the facts on separate index cards. Divide the class in teams and have students review their sets of cards, changing some of the words so that they can pose the questions to the other teams in a challenge themed game. Students will pose the question as: True or False? Assign points and see which team wins!
- **Reporting the News** – *Today's Science* is reports science in the news. Using that concept, Ask each student go to the “Topic Index” tab and choose a topic that appeals and interests them. Have students read the article and then give an oral synopsis of the article as if they were news anchors reporting the story on the nightly news. Have fun with this—make anchor teams, assign medical anchors, health-related topic anchors, etc....

Today's Science



Educator's Guide

- **Create a Game for Test Review** – Using content from *Today's Science* and a PowerPoint game template, choose a subject area and create a game – making up questions from *Today's Science* and link back to *Today's Science* for the answers. Split the class in teams to encourage team work!
- **Experiments** – Under the “Resources” tab, go to “Conducting Experiments”. There are a number of experiments and activities that you can share with your students to understand more about specific areas in science.

| Biology | Notable People in Science | Forensic Science | Global Warming | Chemistry 101 |
|-----------|---------------------------|------------------|----------------|---------------|
| <u>10</u> | <u>10</u> | <u>10</u> | <u>10</u> | <u>10</u> |
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| <u>50</u> | <u>50</u> | <u>50</u> | <u>50</u> | <u>50</u> |

Your Feedback ...Please!

Your feedback is important to us. Tell us how you like *Today's Science* and share with us the ways you integrate this resource into your lessons. We love to hear your feedback—positive or negative.

Please email: onlinesales@infobaselearning.com and put “**Today's Science Feedback**” on the “Subject” line.