



# NOVA<sup>®</sup>

EDUCATION

For over 40 years, NOVA has been educating and entertaining millions of television viewers with stories of scientific discovery—from the latest breakthroughs in technology to the deepest mysteries of the natural world.

NOVA Education supports STEM education and engagement nationwide through the creation of resources from NOVA's broadcast and digital productions.

## RESOURCES FOR EDUCATORS

NOVA Education offers a free digital library of over 900 resources featuring videos, articles, lesson plans, and interactives, all aligned to teaching standards.

VISIT THE NOVA EDUCATION WEBSITE  
[pbs.org/nova/education](https://pbs.org/nova/education)

Find all of our resources on PBS LearningMedia, the destination for high-quality, trusted digital content that inspires students and transforms learning.

BROWSE THE NOVA COLLECTION  
[pbslearningmedia.org/collection/nova/](https://pbslearningmedia.org/collection/nova/)

## DIGITAL SERIES

### WHAT THE PHYSICS?!

A YouTube series hosted and produced by Greg Kestin, *What The Physics?!* tackles foundational questions about the origin of the universe, the merging of quantum mechanics with general relativity, and the nature of space and time.

### THE SECRET LIFE OF SCIENTISTS AND ENGINEERS

An Emmy-nominated web series, *The Secret Life of Scientists and Engineers* profiles today's leading scientists—and shows what they're like when the lab coats come off.

### GROSS SCIENCE

A YouTube series hosted and produced by Anna Rothschild, *Gross Science* tells bizarre stories from the slimy, smelly, and creepy world of science.



## GAMES, INTERACTIVES, AND APPS



### NOVA ELEMENTS

Explore an interactive periodic table of elements, build an atom, construct molecules found in everyday objects in the "Essential Elements" game, and watch the full episode of NOVA's *Hunting the Elements* in this app. The app is available for Mac and PC laptops on PBS LearningMedia:  
[bit.ly/NOVAelements](https://bit.ly/NOVAelements)



### MAKING NORTH AMERICA INTERACTIVE MAP

Discover the history of the North American continent by visiting its geological sites, searching for clues in the landscape, and watching episodes from the NOVA broadcast series *Making North America*, in this web-based interactive. The interactive is available on PBS LearningMedia:  
[bit.ly/MNAinteractivemap](https://bit.ly/MNAinteractivemap).

### NOVA BLACK HOLE APOCALYPSE APP

NOVA Black Hole Apocalypse is an iPad app in which players navigate the cosmos by hurling a star at various celestial objects. Hosted by astrophysicist Janna Levin, this app explores the life cycle of a star and teaches players about black holes and space-time.



## NOVA LABS

[pbs.org/nova/labs](https://pbs.org/nova/labs)

NOVA Labs is a digital platform that engages teens and lifelong learners in games and interactives that encourage authentic scientific exploration. Each Lab is unique and focuses on a different area of active research.

**SUN LAB** NASA solar telescope feeds help students understand and predict solar weather that can affect us on Earth.

**ENERGY LAB** Students are challenged to design renewable energy systems for major cities based on realistic data models.

**CLOUD LAB** NASA Earth satellites help students understand clouds and their role in weather and climate.

**RNA LAB** Students are introduced to a game called *Eterna*, in which they can design RNA molecules that might help scientists develop therapies to fight cancer and other diseases.

**CYBERSECURITY LAB** Students learn how to keep their digital lives safe, spot phishing scams, understand the basics of coding, and defend against cyber attacks.

**EVOLUTION LAB** A phylogeny puzzle game and an interactive tree of life help students explore the relationships between species and the history of life on Earth.

# BLOGS

## NOVA NEXT

NOVA Next is NOVA's award-winning digital publication featuring in-depth articles and commentaries from some of the most respected journalists, scientists, and engineers.

[pbs.org/nova/next](http://pbs.org/nova/next)

## SCIENCE OF LEARNING

*Science of Learning* is NOVA's education blog where we share news, strategies, and resources that help teachers create a more promising future through STEM education.

[pbs.org/nova/education](http://pbs.org/nova/education)

# CONNECT WITH US

Join the NOVA Education Advisory Board to provide feedback on our resources. Please email [NOVAeducation@wgbh.org](mailto:NOVAeducation@wgbh.org) for more information.

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### MAKING NORTH AMERICA INTERACTIVE MAP

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### SECRET LIFE OF SCIENTISTS AND ENGINEERS

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### GROSS SCIENCE

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