

sky high science teacher

sky high science teacher is a term that resonates with innovation, inspiration, and excellence in science education. This article explores the multifaceted role of a sky high science teacher, highlighting their unique teaching methods, the impact they have on student achievement, and how they incorporate advanced scientific concepts into the classroom. Whether you're an educator seeking new strategies, a student interested in learning more, or a parent wanting to understand the value of exceptional science teaching, this comprehensive guide will provide you with valuable insights. We'll delve into the qualifications and skills required, the modern technologies and methodologies they use, and the ways they motivate students to reach new heights in scientific understanding. Additionally, we will examine the challenges faced by science teachers and offer practical solutions. Read on to discover why sky high science teachers are pivotal in shaping the future of STEM education and fostering a lifelong passion for science.

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Role and Importance of a Sky High Science Teacher

A sky high science teacher goes beyond the traditional expectations of a science educator. They play a crucial role in inspiring curiosity and fostering a deep understanding of scientific principles among students. Their approach often involves integrating real-world applications with classroom theory, making science both engaging and relevant. These educators are known for setting high standards, encouraging students to think critically, and cultivating an environment where learners feel empowered to ask questions and explore complex topics.

The importance of a sky high science teacher is evident in student outcomes. Research consistently shows that passionate and knowledgeable science teachers boost student performance and interest in STEM fields. By acting as role models and mentors, these teachers help bridge the gap between theoretical knowledge and practical application, preparing students for higher education and STEM careers.

Essential Skills and Qualifications

To become a sky high science teacher, specific skills and qualifications are essential. These educators typically possess advanced degrees in science, extensive subject matter expertise, and a strong foundation in pedagogical theory. Additionally, they demonstrate exceptional communication skills, adaptability, and a relentless commitment to professional development.

Required Qualifications

Most sky high science teachers hold at least a bachelor's degree in a scientific discipline, with many pursuing master's or doctoral degrees. Certification in teaching and specialized training in science education are also common requirements.

Key Skills

- Expertise in scientific concepts and laboratory procedures
- Ability to translate complex ideas into accessible lessons
- Strong classroom management and leadership abilities
- Proficiency in integrating technology and digital resources
- Effective communication and interpersonal skills
- Continuous pursuit of professional growth

Innovative Teaching Methods

Sky high science teachers employ innovative teaching methods designed to captivate and challenge students. These methods often include inquiry-based learning, hands-on experiments, and collaborative projects. By fostering an interactive classroom environment, teachers help students develop critical thinking skills and a deeper appreciation for scientific inquiry.

Inquiry-Based Learning

Inquiry-based learning encourages students to become active participants in their education. Sky high science teachers use open-ended questions, problem-solving tasks, and investigative experiments to guide students through the scientific process. This approach promotes independent thinking and allows learners to construct their own understanding of scientific phenomena.

Project-Based Learning

Project-based learning is another effective strategy. Students work on long-term science projects, often collaborating in teams to solve real-world problems. This method not only enhances teamwork and communication skills but also allows for the practical application of scientific concepts.

Hands-On Experiments

Incorporating laboratory work and hands-on experiments is fundamental to sky high science teaching. These activities enable students to observe scientific principles in action, develop technical skills, and appreciate the relevance of science in everyday life.

Incorporating Advanced Scientific Concepts

A hallmark of the sky high science teacher is their ability to introduce advanced scientific concepts in a way that is accessible and engaging. Topics such as genetics, quantum physics, and environmental science are presented through interactive lessons and cutting-edge resources.

Bridging Theory and Practice

Teachers make complex ideas understandable by connecting them to real-world scenarios, encouraging students to relate abstract principles to tangible experiences. This approach not only enhances comprehension but also cultivates a genuine interest in science.

Encouraging Scientific Literacy

Sky high science teachers emphasize the importance of scientific literacy, ensuring that students can critically evaluate scientific information and apply it to everyday decisions. This is essential for preparing students to be informed citizens and future professionals.

Use of Technology in Science Education

Technology is a powerful tool in the hands of a sky high science teacher. Modern classrooms are equipped with digital microscopes, interactive whiteboards, and virtual labs, all of which facilitate a dynamic and engaging learning experience.

Digital Resources and Simulations

Teachers utilize digital resources, such as simulations, educational software, and online databases, to enhance instruction. These tools enable students to visualize complex processes, conduct virtual experiments, and access the latest scientific research.

Blended Learning Environments

Blended learning combines traditional teaching methods with online instruction. Sky high science teachers design hybrid classrooms where students can access materials, participate in discussions, and complete assignments both in-person and virtually.

Motivating Students to Excel

One of the defining characteristics of a sky high science teacher is their ability to motivate students to reach their full potential. They recognize individual strengths, provide personalized feedback, and create a supportive environment that encourages risk-taking and exploration.

Strategies for Engagement

- Setting achievable goals and celebrating successes
- Offering enrichment opportunities such as science fairs and competitions
- Connecting lessons to students' interests and career aspirations
- Providing mentorship and guidance

Building Confidence

Sky high science teachers foster self-confidence by emphasizing growth and resilience. They encourage students to learn from mistakes and view challenges as opportunities for development.

Common Challenges and Solutions

Despite their expertise, sky high science teachers face several challenges, including limited resources, diverse student needs, and rapidly evolving scientific knowledge. Addressing these obstacles requires creativity, flexibility, and ongoing professional development.

Resource Limitations

Access to laboratory equipment and funding can be restricted. Teachers overcome this by utilizing low-cost materials, seeking grants, and implementing virtual labs.

Meeting Diverse Learning Needs

Differentiated instruction is key to accommodating varied learning styles. Sky high science teachers tailor lessons to individual abilities, ensuring that all students can succeed.

Keeping Up with Scientific Advances

Staying current with new discoveries and technologies is essential. Teachers attend workshops, collaborate with peers, and engage in continuous learning to remain at the forefront of science education.

Impact on STEM Education

The influence of sky high science teachers extends beyond the classroom. Their dedication to excellence helps shape the future of STEM education by inspiring students to pursue careers in science, technology, engineering, and mathematics. They contribute to a culture of scientific inquiry, foster innovation, and prepare the next generation of leaders and problem-solvers.

By setting high expectations and providing the tools needed for success, sky high science teachers play a pivotal role in advancing scientific literacy and promoting lifelong learning. Their legacy is reflected in the achievements of their students and the progress of society as a whole.

Trending Questions and Answers about Sky High Science Teacher

Q: What defines a sky high science teacher?

A: A sky high science teacher is characterized by exceptional subject matter expertise, innovative teaching methods, and a strong commitment to inspiring student achievement in science.

Q: What qualifications are needed to become a sky high science teacher?

A: Most sky high science teachers hold advanced degrees in science or education, teaching certification, and ongoing professional development in modern instructional strategies.

Q: How do sky high science teachers use technology in their

classrooms?

A: They utilize digital microscopes, virtual labs, interactive whiteboards, and educational software to create engaging, technology-rich learning environments.

Q: What are effective ways sky high science teachers motivate students?

A: Strategies include personalized feedback, enrichment activities, mentorship, and connecting lessons to students' interests and career goals.

Q: How do sky high science teachers accommodate different learning styles?

A: They implement differentiated instruction, provide varied assessment methods, and tailor lessons to meet individual student needs.

Q: What challenges do sky high science teachers commonly face?

A: Challenges include limited resources, keeping up with scientific advancements, and addressing diverse student abilities and interests.

Q: How do sky high science teachers incorporate advanced scientific concepts?

A: They use real-world applications, interactive lessons, and current scientific research to make complex topics accessible and engaging.

Q: What impact do sky high science teachers have on STEM education?

A: Their influence leads to higher student achievement, increased interest in STEM fields, and better preparation for future careers in science and technology.

Q: What are some innovative teaching methods used by sky high science teachers?

A: Popular methods include inquiry-based learning, project-based learning, and hands-on laboratory experiments.

Q: Why is scientific literacy important for students?

A: Scientific literacy enables students to critically evaluate information, make informed decisions, and succeed in a rapidly changing world.

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Sky High Science Teacher: Igniting a Passion for STEM

Are you ready to take your science teaching to new heights? This isn't about just covering the curriculum; it's about igniting a lifelong love of STEM in your students. This comprehensive guide explores innovative strategies, engaging activities, and cutting-edge resources to transform your classroom into a dynamic, exciting hub for scientific discovery. We'll delve into practical techniques to make science captivating for all learners, regardless of their prior knowledge or background. Get ready to become a Sky High Science Teacher!

I. Beyond the Textbook: Engaging Science Experiments for All Levels

The key to a truly captivating science classroom lies in hands-on, inquiry-based learning. Forget rote memorization; let's build understanding through experimentation.

A. Elementary Level: Simple and Sensational

Start with simple, visually appealing experiments. Think baking soda volcanoes, rainbow density towers, or creating homemade slime. These activities foster curiosity and build foundational scientific concepts without complex equipment. The focus should be on observation, prediction, and recording results – crucial skills for future scientific endeavors.

B. Middle School: Diving Deeper into Concepts

Introduce more complex experiments involving variables and controls. Think about building simple circuits, investigating the properties of different materials, or conducting experiments related to plant growth or chemical reactions. Encourage students to design their own experiments, fostering critical thinking and problem-solving skills.

C. High School: Advanced Investigations and Research Projects

High school offers the opportunity for in-depth research projects and independent investigations. Students can design and execute sophisticated experiments, analyzing data and drawing conclusions. This could involve advanced chemistry titrations, physics experiments with projectiles, or biological studies using microscopes. Encourage participation in science fairs and competitions to further enhance their learning experience.

II. Leveraging Technology: Interactive Resources for a Modern Classroom

Technology can be a powerful tool for elevating your science teaching. Utilize interactive simulations, virtual labs, and online resources to enhance learning and engagement.

A. Virtual Labs and Simulations: Expanding Learning Opportunities

Virtual labs offer safe and accessible opportunities to explore concepts that might be impractical or dangerous to conduct in a physical classroom. There are numerous free and paid resources available, catering to all levels and subjects.

B. Interactive Whiteboards and Presentation Tools: Visually Engaging Lessons

Interactive whiteboards transform static lessons into dynamic experiences. Use them to create engaging presentations, annotate diagrams, and facilitate interactive discussions. Utilize presentation tools to create visually appealing and informative materials.

III. Cultivating Curiosity: Fostering a Love for Science Beyond the Classroom

Inspiring a lifelong passion for science requires going beyond the textbook and classroom walls.

A. Field Trips and Guest Speakers: Real-World Connections

Organize field trips to science museums, nature centers, or research facilities. Invite guest speakers – scientists, engineers, or professionals in STEM fields – to share their experiences and inspire students.

B. Science Clubs and Competitions: Extracurricular Engagement

Encourage students to join science clubs or participate in science fairs and competitions. This provides opportunities for collaboration, exploration, and showcasing their talents.

C. Connecting Science to Everyday Life: Real-World Applications

Highlight the relevance of science to everyday life. Discuss how scientific principles are used in technology, medicine, and other fields. This helps students connect abstract concepts to tangible applications, making the learning more meaningful.

IV. Assessing and Adapting: Measuring Success and Continuous Improvement

Effective teaching involves ongoing assessment and adaptation to meet the diverse needs of your students.

A. Formative Assessments: Ongoing Feedback and Adjustment

Utilize formative assessments, such as quizzes, discussions, and observation, to monitor student understanding and adjust your teaching strategies accordingly. This ensures that your instruction remains relevant and engaging.

B. Summative Assessments: Evaluating Learning Outcomes

Use summative assessments, such as tests and projects, to evaluate student learning at the end of a unit or course. Analyze the results to identify areas for improvement and refine your teaching methods.

Conclusion: Reaching for the Stars

Becoming a "Sky High Science Teacher" is an ongoing journey of learning, innovation, and passion. By embracing engaging activities, leveraging technology, and fostering a love for science beyond the classroom, you can inspire a generation of future scientists, engineers, and innovators. Remember to constantly adapt your approach, embracing new techniques and resources to ensure your students receive the best possible learning experience.

FAQs

1. What are some low-cost or free resources for science experiments? Many websites offer free printable experiment guides and instructions using readily available household materials. Check out educational websites and YouTube channels dedicated to science experiments.
2. How can I differentiate instruction to meet the needs of diverse learners? Incorporate various learning styles - visual, auditory, kinesthetic - and provide differentiated activities and assignments to cater to different skill levels and learning paces.
3. What are some effective strategies for managing a science classroom? Clear procedures, well-organized materials, and active engagement strategies help maintain a focused and productive learning environment.
4. How can I encourage more girls and underrepresented minorities to pursue STEM careers? Showcase successful women and minority figures in STEM, highlight the diverse applications of science, and create an inclusive and supportive classroom environment.
5. Where can I find professional development opportunities for science teachers? Look for workshops, conferences, and online courses specifically designed for science educators to enhance your skills and stay up-to-date on the latest teaching methods and resources.

sky high science teacher: Under the Sky We Make Kimberly Nicholas PhD, 2021-03-23 **
Los Angeles Times bestseller ** It's warming. It's us. We're sure. It's bad. But we can fix it. After speaking to the international public for close to fifteen years about sustainability, climate scientist Dr. Nicholas realized that concerned people were getting the wrong message about the climate crisis. Yes, companies and governments are hugely responsible for the mess we're in. But individuals CAN effect real, significant, and lasting change to solve this problem. Nicholas explores finding purpose in a warming world, combining her scientific expertise and her lived, personal experience in a way that seems fresh and deeply urgent: Agonizing over the climate costs of visiting loved ones overseas, how to find low-carbon love on Tinder, and even exploring her complicated family legacy involving supermarket turkeys. In her astonishing, bestselling book *Under the Sky We Make*, Nicholas does for climate science what Michael Pollan did more than a decade ago for the food on our plate: offering a hopeful, clear-eyed, and somehow also hilarious guide to effecting real change, starting in our own lives. Saving ourselves from climate apocalypse will require radical shifts within each of us, to effect real change in our society and culture. But it can be done. It requires, Dr.

Nicholas argues, belief in our own agency and value, alongside a deep understanding that no one will ever hand us power--we're going to have to seize it for ourselves.

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sky high science teacher: The New Weather Book Michael Oard, 2015-03-01 A fresh and compelling look at wild and awesome examples of weather in this revised and updated book in the Wonders of Creation series! Did you know the hottest temperature ever recorded was 134° F (56.7° C) on July 10, 1913 in Death Valley, California? The highest recorded surface wind speed was in the May 3, 1999, Oklahoma tornado, measured at 302 mph (486 kph)! The most snow to fall in a one-year period is 102 feet (3,150 cm) at Mount Rainier, Washington, from February 19, 1971 to February 18, 1972! From the practical to the pretty amazing, this book gives essential details into understanding what weather is, how it works, and how other forces that impact on it. Learn why storm chasers and hurricane hunters do what they do and how they are helping to solve storm connected mysteries. Discover what makes winter storms both beautiful and deadly, as well as what is behind weather phenomena like St. Elmo's Fire. Find important information on climate history and answers to the modern questions of supposed climate change. Get safety tips for preventing dangerous weather related injuries like those from lightning strikes, uncover why thunderstorms form, as well as what we know about the mechanics of a tornado and other extreme weather examples like flash floods, hurricanes and more. A fresh and compelling look at wild and awesome examples of weather in this revised and updated book in the Wonders of Creation series!

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sky high science teacher: Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices Christina V. Schwarz, Cynthia Passmore, Brian J. Reiser , 2017-01-31 When it's time for a game change, you need a guide to the new rules. Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices provides a play-by-play understanding of the practices strand of A Framework for K-12 Science Education (Framework) and the Next Generation Science Standards (NGSS). Written in clear, nontechnical language, this book provides a wealth of real-world examples to show you what's different about practice-centered teaching and learning at all grade levels. The book addresses three important questions: 1. How will engaging students in science and engineering practices help improve science education? 2. What do the eight practices look like in the classroom? 3. How can educators engage students in practices to bring the NGSS to life? Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices was developed for K-12 science teachers, curriculum developers, teacher educators, and administrators. Many of its authors contributed to the Framework's initial vision and tested their ideas in actual science classrooms. If you want a fresh game plan to help students work together to generate and revise knowledge—not just receive and repeat information—this book is for you.

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any science curriculum. Filled with innovative tools, dynamic activities, and practical lesson plans that are grounded in theory, research, and national standards, the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics, chemistry, biology, and the earth and space sciences.

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sky high science teacher: *Learning to Love a Western Sky* Amelia Díaz Ettinger, 2020-09 Poetry. Latinx Studies. Women's Studies. Ettinger's second book of poetry reflects the assimilation of the immigrant into the host landscape. It is the transition from nostalgia to integration and the review of aging, loving, and betrayal in this foreign home. These poems sing a duet of longing--love for a Puerto Rico far away and long ago, and devotion to the American West here and now. We would be poorer without such witness to both homelands, here in conversation through poetry. The rich double consciousness of Amelia Ettinger travels the lyric highway between then and now, there and here. She reminds us to recover the exotic dimensions of memory and savor direct experience now.--Kim Stafford By turns personal, topical, and erotic, the poems in *LEARNING TO LOVE A WESTERN SKY* search for moments of stillness and familiarity in an era of displacements. Like the psalmist in exile in Babylon, Ettinger is full of grief and longing for her youth in her Caribbean Zion to which she sings her many devotions, aging in a foreign land.--David Axelrod *LEARNING TO LOVE A WESTERN SKY* ranges widely from Ettinger's home in the Grande Ronde, to her beloved patria Puerto Rico, in poems of love and sorrow, aging and memory, art and death, with compassion always at the core. This is a poet with a particular gift for surprising rhythms and patterns of sound, and she brings to each poem, most impressively, an individual, distinctive voice. These are wonderful, if sometimes troubling poems--exactly what I come to poetry for.--Molly Gloss

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sky high science teacher: *The Teacher Wars* Dana Goldstein, 2015-08-04 NEW YORK TIMES BESTSELLER • A groundbreaking history of 175 years of American education that brings the lessons of the past to bear on the dilemmas we face today—and brilliantly illuminates the path forward for public schools. “[A] lively account. —New York Times Book Review In *The Teacher Wars*, a rich, lively, and unprecedented history of public school teaching, Dana Goldstein reveals that teachers have been embattled for nearly two centuries. She uncovers the surprising roots of hot button issues, from teacher tenure to charter schools, and finds that recent popular ideas to improve schools—instituting merit pay, evaluating teachers by student test scores, ranking and firing veteran teachers, and recruiting “elite” graduates to teach—are all approaches that have been tried in the past without producing widespread change.

sky high science teacher: *Assessing Science Understanding* Joel J. Mintzes, James H. Wandersee, Joseph D. Novak, 2005-08-22 Recent government publications like *Benchmarks for Scientific Literacy* and *Science for all Americans* have given teachers a mandate for improving science education in America. What we know about how learners construct meaning--particularly in the natural sciences--has undergone a virtual revolution in the past 25 years. Teachers, as well as researchers, are now grappling with how to better teach science, as well as how to assess whether students are learning. *Assessing Science Understanding* is a companion volume to *Teaching Science for Understanding*, and explores how to assess whether learning has taken place. The book discusses a range of promising new and practical tools for assessment including concept maps, vee diagrams,

clinical interviews, problem sets, performance-based assessments, computer-based methods, visual and observational testing, portfolios, explanatory models, and national examinations.

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sky high science teacher: Ask a Science Teacher Larry Scheckel, 2013-12-17 Fun and fascinating Q&As on topics from astronomy to zoology: "A treasure." —Library Journal We've all grown so used to living in a world filled with wonders that we sometimes forget to wonder about them: What creates the wind? Do fish sleep? Why do we blink? All too often, the explanations remain

shrouded in mystery—or behind a haze of technical language. For kids of all ages—or those of us who should have raised our hands in science class but didn't—Larry Scheckel comes to the rescue. An award-winning science teacher and longtime columnist for his local newspaper, Scheckel is a master explainer with a trove of knowledge. Just ask the students and devoted readers who've spent years trying to stump him! In *Ask a Science Teacher*, Scheckel collects 250 of his favorite Q&As and provides refreshingly uncomplicated explanations. You'll learn how planes really fly, why the Earth is round, how microwaves heat food, and much more on topics including: The Human Body * Earth Science * Astronomy * Chemistry * Physics * Technology * Zoology * Music and conundrums that don't fit into any category "For any curious minded reader—young or old." —Publishers Weekly

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sky high science teacher: Her Flight to the Love Nest Kuldip Singh Bedi, 2014-03-04 This is the heart rending love story of a handicapped girl, who fights against all odds and gets educated. After doing graduation, she passes B.Ed. She not only becomes a very successful teacher, but also a crusader for the rights of the downtrodden and the women. In spite of working with all the zeal to serve the people, an unfulfilled desire to become a complete woman always torments her. Except for her legs all her limbs are like those of a normal woman. She wants to be loved and feels like doing everything which a woman is capable of doing. She falls in love with a man and wants him to possess her, enter her, make love to her, to make her feel a complete woman. But he does not cross the control line between spiritual love and physical love. She opens herself fully to him but he remains filled more with compassion than passion and she breathes her last. Kuldip Singh Bedi is the Magazine Editor of *Jagbani*, a Punjabi daily of Hind Samachar group of newspapers. Though an eminent journalist, he is a prolific writer in Punjabi, having authored five novels, three collections of short stories, travelogues and a collection of articles. He has also written dialogues of a few films.

sky high science teacher: The Science Teacher's Toolbox Tara C. Dale, Mandi S. White, 2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings *The Teacher's Toolbox* series is an innovative, research-based resource providing teachers with instructional strategies for students of all levels and abilities. Each book in the collection focuses on a specific content area. Clear, concise guidance enables teachers to quickly integrate low-prep, high-value lessons and strategies in their middle school and high school classrooms. Every strategy follows a practical, how-to format established by the series editors. *The Science Teacher's Toolbox* is a classroom-tested resource offering hundreds of accessible, student-friendly lessons and strategies that can be implemented in a variety of

educational settings. Concise chapters fully explain the research basis, necessary technology, Next Generation Science Standards correlation, and implementation of each lesson and strategy. Favoring a hands-on approach, this book provides step-by-step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately. Lessons cover topics such as setting up labs, conducting experiments, using graphs, analyzing data, writing lab reports, incorporating technology, assessing student learning, teaching all-ability students, and much more. This book enables science teachers to: Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators, *The Science Teacher's Toolbox: Hundreds of Practical Ideas to Support Your Students* is an invaluable aid for upper elementary, middle school, and high school science educators as well as those in teacher education programs and staff development professionals.

sky high science teacher: *Next Time You See the Moon* Emily Morgan, 2014-07-01 This fascinating book will stay with children every time they gaze up at the night sky. Through vivid pictures and engaging explanations, children will learn about many of the Moon's mysteries: what makes it look like a silvery crescent one time and a chalk-white ball a few nights later, why it sometimes appears in the daytime, where it gets its light, and how scientists can predict its shape on your birthday a thousand years from now. *Next Time You See the Moon* is an ideal way to explain the science behind the shape of the Moon and bring about an evening outing no child—or grown-up—will soon forget. Awaken a sense of wonder in a child with the *Next Time You See* series from NSTA Kids. The books will inspire elementary-age children to experience the enchantment of everyday phenomena such as sunsets, seashells, fireflies, pill bugs, and more. Free supplementary activities are available on the NSTA website. Especially designed to be experienced with an adult—be it a parent, teacher, or friend—*Next Time You See* books serve as a reminder that you don't have to look far to find something remarkable in nature.

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published daily when Congress is in session. The Congressional Record began publication in 1873. Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States (1789-1824), the Register of Debates in Congress (1824-1837), and the Congressional Globe (1833-1873)

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