

## Awesome Science Experiments For Kids 100 Fun Stem Steam Projects And Why They Work

Do you know the secret recipe for the world's most slippery slime? How can you draw a 3-D picture that will mess with your mind? Can you make an instant soap monster in the microwave? Discover the mind-bending, super-weird science that they aren't teach in school! Young readers will love this awesome collection of incredible optical illusions, cool experiments, sneaky hacks, hilarious pranks, and shocking magic tricks. Explore biology, physics, and chemistry from a completely different point of view—one that teachers won't ever tell you about! With a glossary of key scientific terms in the back, this brain-boosting book of fun science is perfect for readers aged 8+.

Awesome S.T.E.A.M.-based science experiments you can do right at home with easy-to-find materials designed for maximum enjoyment, learning, and discovery for kids ages 8 to 12 Join the experts at the Good Housekeeping Institute Labs and explore the science you interact with every day. Using the scientific method, you'll tap into your own super-powers of logic and deduction to go on a science adventure. The engaging experiments exemplify core concepts and range from quick and simple to the more complex. Each one includes clear step-by-step instructions and color photos that demonstrate the process and end result. Plus, secondary experiments encourage young readers to build on what they've discovered. A "Mystery Solved!" explanation of the science at work helps your budding scientist understand the outcomes of each experiment. These super-fun, hands-on experiments include: • Building a solar oven and making s'mores • Creating an active rain cloud in a jar • Using static electricity created with a balloon to power a light bulb • Growing your own vegetables—from scraps! • Investigating the forces that make an object sink or float • And so much more! Bursting with more than 200 color photos and incredible facts, this sturdy hard cover is the perfect gift for any aspiring biologist, chemist, physicist, engineer, and mathematician!

Gives curious young readers dozens of colorful, exciting projects designed to teach them about the basics of science, physics, chemistry and engineering. They'll learn about critical thinking, how to conduct an experiment, and how to measure results, in a screen-free setting.

The author explores recent scientific breakthroughs in the fields of supergravity, supersymmetry, quantum theory, superstring theory, and p-branes as he searches for the Theory of Everything that lies at the heart of the cosmos.

The ultimate collection of DIY activities to do with your kids to teach STEM basics and beyond, from a wildly popular online dad. With more than 3 million fans, TheDadLab has become an online sensation, with weekly videos of fun and easy science experiments that parents can do with their kids. These simple projects use materials found around the house, making it easier than ever for busy moms and dads to not only spend more quality time with their children but also get them interested in science and technology. In this mind-blowing book, Sergei Urban takes the challenge off-screen with fifty step-by-step projects, including some that he has never shared online before. Each activity will go beyond the videos, featuring detailed explanations to simplify scientific concepts for parents and help answer the hows and whys of their curious children. Learn how to: \* explore new fun ways to paint; \* make slime with only two ingredients; \* defy gravity with a ping-pong ball; \* produce your own electricity, and more! With TheDadLab, parents everywhere will have an easy solution to the dreaded "I'm bored" complaint right at their fingertips!

With more than 3 million fans, TheDadLab has quickly become an online sensation by creating a solution for parents when they hear the dreaded 'I'm bored' complaint, and now, for the first time, Sergei Urban has transferred his most popular experiments to print in this beautifully illustrated and mind-blowing book! Using everyday ingredients that you can find in your kitchen cupboard, Sergei shows experiments that are not only fun for children, but fun for adults too! With 40 wonderful activities, including 15-never-before-posted, TheDadLab includes additional information not found on his online posts: each activity will feature a detailed explanation simplifying the information that stems from the fields of Science, Technology, engineering, and Mathematics (STEM) for a parent to help explain their curious child and answer the questions 'how' and 'why.'

Fun, STEAM-based experiments and activities to do at home—all within a mason jar! Scientific learning doesn't have to stop when kids hop off the school bus. With The Mason Jar Scientist, you and your kids can have a blast together while learning about fascinating scientific topics! This book provides dozens of practical, hands-on experiments illustrating scientific principles—that can all be done within a mason jar. Each experiment also includes discussion questions and great ideas for STEAM-based extension activities. You and your child will learn about: Clouds Why the sky is blue Tornadoes The greenhouse effect Light refraction Sound vibrations The solar system Biomes And much more! All you need for each activity is a mason jar, some household ingredients, and a desire to learn! Packed with colorful photos, clear, information, and easy-to-follow instructions, The Mason Jar Scientist is the perfect book to get kids excited about science and to spend some quality time together.

"Getting kids excited about science can be difficult. Science Experiments for Kids provides young scientists ages 5-10 with hands-on experiments that teach them how to apply the scientific method. From the home laboratory of former chemistry teacher and blogger behind the Science Kiddo, Crystal Chatterton combines fun experiments with the hows and whys behind them in Science Experiments for Kids"-- Easy, Creative and Fun Things to Keep Your Children Entertained and Happy Never again will you hear the all-too-common call of, "I'm bored!" with this kid-pleaser for many ages. Whether your kid is 3, 5 or 12 years old, there are hundreds of fun, educational and engaging things to do in this book. When they ask to watch television, you'll have the perfect solution. 101 Kids Activities That Are the Bestest, Funnest Ever! has time-tested, exciting activities to keep your children laughing and learning for the whole day, every day. Holly Homer and Rachel Miller are the women behind the wildly popular site KidsActivitiesBlog.com, which gets more than 2 million hits a month and has more than 71,000 fans on Facebook and 100,000 followers on Pinterest. One-of-a-kind activities--never before seen on the blog--range from making edible play dough and homemade sidewalk chalk to playing shoebox pinball and creating a balance beam obstacle course. And with outdoor and indoor activities and tips for adjusting according to your child's age, this book will provide hours and hours of never-ending fun with your family. This parenting life raft is also the perfect way to make sure caregivers are spending quality-time with your little ones.

Join Bartholomew Cubbins in Dr. Seuss's Caldecott Honor-winning picture book about a king's magical mishap! Bored with rain, sunshine, fog, and snow, King Derwin of Didd summons his royal magicians to create something new and exciting to fall from the sky. What he gets is a storm of sticky green goo called Oobleck—which soon wreaks havoc all over his kingdom! But with the assistance of the wise page boy Bartholomew, the king (along with young readers) learns that the simplest words can sometimes solve the stickiest problems.

Why is the sky blue? What makes a balloon float? Why can't I see in the dark? You can discover the answers to these questions and more with The Everything Kids' Easy Science Experiments Book. Using easy-to-find household materials like soda bottles and flashlights, you can build bubbles, create plastic--even make raisins dance! All of the experiments are kid-tested and educational--but more importantly, they're tons of fun! These quick and easy experiments help you to: Explore your five senses. Discover density and sound. Delve into seasons, life cycles, and weather. Investigate electricity and light. Study the solar system and landforms. Examine matter and acids/bases. This is the perfect book for a rainy Saturday, a lazy vacation

day, or even after school. You'll have so much fun conducting the experiments, you'll forget that you're actually learning about science!

"25 edible science experiments that teach kids that cooking is chemistry"--

Chemistry comes alive with hands-on science experiments for kids ages 5 to 10 The world of chemistry is packed with awesome ways for kids to learn and play! Filled with colorful and gooey fun, these science experiments for kids are sure to get them interested in discovering how different substances react together. Whether it's creating fizzy bath bombs or making batteries out of coins, each of these science experiments for kids provides a simple hypothesis and the guidance they need to test it out for themselves. Go beyond other science books for kids with: 40 fun chemistry experiments--Introduce kids to real chemistry with experiments that they can do at home using easy-to-find materials--and an adult assistant. Kid-friendly explanations--Ensure young scientists are getting the most out of the experiments with simple breakdowns of exactly what happened, why, and how it connects to STEAM. A handy mess-o-meter and more--Pick the perfect experiment with helpful labels that detail the difficulty, time needed, and the amount of cleanup. Foster a lifelong love of scientific exploration with these amazing science experiments for kids.

Awesome Science Experiments for Kids 100+ Fun Steam Projects and Why They Work! Rockridge Press

Delicious Experiments to Discover, Build, Explore and More! Emma Vanstone, Chief Experimenter at Science Sparks and author of This Is Rocket Science, is a scientist, educator, author and mother ready to break down the science behind the tastiest treats in your kitchen. Whether you want to learn the magic of chemistry, the speed of color, the basics of earth science or the effects of structural engineering, food is a great way to explore all of this and more. Each experiment uses edible ingredients to reveal the properties of the foods we eat every day. Using the acid in vinegar to dissolve egg shells, baking soda to make The Best Fizzy Lemonade or boiling water to make Ice Cubes in a Flash, each project helps you understand the how and why of the world around you. With 60 unique scientific projects, Snackable Science Experiments will entertain and amaze for hours on end!

Whether you're looking for science project ideas for the science fair or you just want fun science experiments to do with your child to encourage learning at home, 101 Great Science Experiments is a fun and comprehensive science experiment resource ja

Forget about mad scientists and messy laboratories! This incredible, interactive guide for children showcases 101 absolutely awesome experiments you can do at home. Find out how to make a rainbow, build a buzzer, see sound, construct a circuit, bend light, play with shadows, measure the wind, weigh air, and create an underwater volcano. The astonishing variety of experiments are all very easy and entirely safe, with step-by-step text and everyday ingredients. Biology, chemistry, and physics are brought to life, showing budding young scientists that science is all around us all the time. As you have fun trying out experiments with friends and family, core scientific principles are presented in the most memorable way. With chapters covering important topics such as color, magnets, light, senses, electricity, and motion, the laws of science are introduced in crystal-clear text alongside specially commissioned full-color photography for children to understand. Follow in the footsteps of Albert Einstein, Marie Curie, and all the other great minds with 101 Great Science Experiments and learn the secrets of science you'll never forget. Heatproof, transparent, and durable, the mason jar is a science lab just waiting to be discovered. Unlock its potential with 40 dynamic experiments for budding scientists ages 8 and up. Using just a jar and a few ordinary household items, children learn to create miniature clouds, tiny tornadoes, small stalactites, and, of course, great goo and super slime! With a little ingenuity, the jar can be converted into a lava lamp, a water prism, a balloon barometer, and a compass. Each fun-packed project offers small-scale ways to illustrate the big-picture principles of chemistry, botany, biology, physics, and more.

This book presents the most amazing, visually stunning experiments you can do in your home, with equipment you likely have on hand right now! It's all provided by Steve Spangler, the country's most recognized personality devoted to teaching kids about science. Inside you'll find dozens of easy projects that generate absolutely mind-blowing results. Young readers and their parents will also find a special section of more advanced experiments for those die-hard science fanatics! You'll learn how to make: - a thermite reaction - air pressure can crusher - sugar holiday ornaments - a stained "glass" sugar window - egg in a bottle - world's simplest motor - an ice-tray battery - washing soap stalactites - a homemade lung - eggshell geodes - and much more! And like Steve's other books, set up and clean up are still fast and super-easy, making "Super-Cool Experiments" the perfect gift for rainy day fun, supplemental school work, or just fascinating projects for curious kids.

DIVAt-home science provides an environment for freedom, creativity and invention that is not always possible in a school setting. In your own kitchen, it's simple, inexpensive, and fun to whip up a number of amazing science experiments using everyday ingredients./divDIV /divDIVScience can be as easy as baking. Hands-On Family: Kitchen Science Lab for Kids offers 52 fun science activities for families to do together. The experiments can be used as individual projects, for parties, or as educational activities groups./divDIV /divKitchen Science Lab for Kids will tempt families to cook up some physics, chemistry and biology in their own kitchens and back yards. Many of the experiments are safe enough for toddlers and exciting enough for older kids, so families can discover the joy of science together.

How far can you shoot a pom-pom with energy generated from rubber bands? What attracts goo to a balloon? Can you cook s'mores using energy from the sun? As kids grow older, they become more curious about the world around them, often asking, "How does this work?" Science Experiments for Kids teaches budding scientists ages 5-10 the nuts and bolts of the scientific method, using fun, hands-on experiments designed to show kids how to hypothesize, experiment, and then record their findings. From figuring out how quicksand works to turning a lemon into a battery, Science Experiments for Kids teaches young scientists how cool it is to be curious. Show your kids how much fun they can have with physics.

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Over 30 delightfully gloopy, gooey, colorful DIY recipes will mesmerize youngsters by showing them how to make slime. Play, poke, push, pull, and pop fabulous easy-to-follow slime recipes. They are all tried and tested by our slime experts, so you don't have to search the vast digital plains for the perfect recipe. Create monster slime with googly eyes, bite into some yummy edible

chocolate slime, and see the rainbow with unicorn slime. All projects in this kid's book are shown with clear step-by-step images and a vibrant image of the final product in all its slimy glory! Learn the science behind these slime creations with amazing fun facts and carry on the fun with recipe variations. The latest in addictive kids' activities, making your slime is the ultimate sticky and squidgy fun. All slime recipes are borax-free, and with online recipes varying so drastically, it's nice to know that your slime-y masterpieces will come out perfect on the first try. Making slime is currently one of the most popular trends for children, with some homemade slime videos reaching 30-million views. With 30 recipes, The Slime Book includes more variations than any slime book available, and all recipes use safe and readily available ingredients. Science information boxes add an educational element to the book without detracting from the fun. Ideal for children ages 5-9 who are new to the slime trend or who are already obsessed with slime and looking for new, funky recipes. Get Ready To Slime! From basic slime to edible, textured, glow-in-the-dark, and color-changing slime - there's something for everyone! Kids will be mesmerized and "slimerized" by the book's gloopy, gooey, colorful slime recipes. Create a volcanic slime eruption, gross-out your friends with snot slime, and tuck into tasty chocolatey slime. Simple step-by-steps and vibrant photographs show how to create awesome slime, every time. Each recipe uses safe, readily available ingredients, so you can start pulling and poking straight away. Get ready to become slime extraordinaire, making: - Glitter slime - Pompom slime - Alphabet slime - Glow in the dark slime - Magnetic slime - Dinosaurs in Amber slime and much more! This book was such a hit that DK released a second "slimetastic" title! Try Super Slime next, packed with another 30 innovative recipes your little ones will love to try!

Explore the outdoors with hands-on science activities for kids ages 5 to 10 Kids are full of big questions like "What makes plants grow?" or "Why does the moon change shape in the sky?". Awesome Outdoor Experiments for Kids can help them find the answers! It's a treasure trove of outdoor adventures, with more than 50 fun experiments that show kids science in action as they play outside. Every experiment focuses on at least one aspect of STEAM: science, technology, engineering, arts, and math. As kids explore each activity outdoors, they'll get the chance to interact with nature and the amazing processes that are happening all around them. They'll observe bug behavior, build a beaver dam, predict the weather, and so much more. Discover the ultimate guide to an outdoor science lab for kids: Easy to do at home--The activities use basic items that are probably already around the house and include easy-to-follow steps. Hows and whys--Kids will learn the real science behind every result with simple explanations of what happened, tips for exploring more, and fascinating questions to think about. Just for kids--Little ones might need a little help from a grown-up for certain steps, but these experiments are designed for kids to do all by themselves. Get kids outdoors with a book of hands-on experiments that show them the power of nature!

Ryan and Selena Frederick were newlyweds when they landed in Switzerland to pursue Selena's dream of training horses. Neither of them knew at the time that Ryan was living out a death sentence brought on by a worsening genetic heart defect. Soon it became clear he needed major surgery that could either save his life--or result in his death on the operating table. The young couple prepared for the worst. When Ryan survived, they both realized that they still had a future together. But the near loss changed the way they saw all that would lie ahead. They would live and love fiercely, fighting for each other and for a Christ-centered marriage, every step of the way. Fierce Marriage is their story, but more than that, it is a call for married couples to put God first in their relationship, to measure everything they do and say to each other against what Christ did for them, and to see marriage not just as a relationship they should try to keep healthy but also as one worth fighting for in every situation. With the gospel as their foundation, Ryan and Selena offer hope and practical help for common struggles in marriage, including communication problems, sexual frustration, financial stress, family tension, screen-time disconnection, and unrealistic expectations.

The science behind, "But, why?" Don't get caught off guard by your kids' science questions! You and your family can learn all about the ins and outs of chemistry, biology, physics, the human body, and our planet with Dad's Book of Awesome Science Experiments. From Rock Candy Crystals to Magnetic Fields, each of these fun science projects features easy-to-understand instructions that can be carried out by even the youngest of lab partners, as well as awesome, full-color photographs that guide you through each step. Complete with 30 interactive experiments and explanations for how and why they work, this book will inspire your family to explore the science behind: Chemistry, with Soap Clouds Biology, with Hole-y Walls Physics, with Straw Balloon Rocket Blasters Planet Earth, with Acid Rain The Human Body, with Marshmallow Pulse Keepers Best of all, every single one of these projects can be tossed together with items around the house or with inexpensive supplies from the grocery store. Whether your kid wants to create his or her own Mount Vesuvius or discover why leaves change colors in the fall, Dad's Book of Awesome Science Experiments will bring out the mad scientists in your family--in no time! Presents more than one hundred home science experiments that answer such questions as "Why does bread rise?," "What is mold?," and "How are fingerprints formed?"

This science experiments for kids book is packed with 40+ fun, safe and cool kids science experiments! Guaranteed to keep any child entertained for hours the experiments in this book will astound the entire family. Filled with amazing fun, safe experiments that are suitable for all ages, even the adults will enjoy these epic experiments! Each experiment uses simple household objects, no special equipment required! Easy to follow illustrations allow any child to become a successful scientist!

A young child tries a series of wacky experiments, such as seeing if a piece of bologna will fly like a frisbee and determining whether seedlings will grow if watered with expensive perfume, and then must suffer the consequences of experiments gone awry.

50 educational (and edible!) science experiments you can do at home In laboratories, at school, and even in your house--science happens everywhere. Awesome Kitchen Science Experiments for Kids brings the excitement of scientific investigation to your kitchen with a heaping helping of experiments that you can really sink your teeth into! From flaming cheese puffs to solar-powered s'mores, discover tons of deliciously fun ways to explore science--plus technology, engineering, art, and math (STEAM). Each of these science experiments for kids comes with easy-to-follow instructions, as well as difficulty and mess ratings so you know how much adult help you'll need. You'll even find out what meal each experiment is best for! Awesome Kitchen Science Experiments for Kids includes: Chew on science--Discover the science in your everyday life with 50 experiments you can try (and taste) yourself. Fun and educational--Eat your way through five chapters worth of kitchen science experiments for kids, each one based on a specific part of STEAM learning. All skill levels--Whether it's your first time experimenting in the kitchen or you've already got lots of cooking experience, this book of tasty experiments is for you. Hungry for scientific exploration? Dig in with Awesome Kitchen Science Experiments for Kids!

This dynamic, fun-packed book includes more than 50 exciting experiments for kids to learn and grow their knowledge in science, technology, engineering, and math. Each experiment is accompanied by clear instructions and step-by-step photography. The experiments span topics such as light, sound, heat, plants, electricity, magnetism, and other concepts that play an important role in understanding our world. Make a volcano using everyday household materials. Learn about jet propulsion or how to make a lemon battery. Discover the science behind echoes and how sound reverberates off surfaces. Grow

seeds into plants before your eyes by learning about the proper amounts of water, warm, and sunlight. All of these amazing activities can be found within the pages of this entertaining book. Awesome STEM Science Experiments will keep budding young scientists entertained for hours!

Bring out your child's creativity and imagination with more than 60 artful activities in this completely revised and updated edition Art making is a wonderful way for young children to tap into their imagination, deepen their creativity, and explore new materials, all while strengthening their fine motor skills and developing self-confidence. The Artful Parent has all the tools and information you need to encourage creative activities for ages one to eight. From setting up a studio space in your home to finding the best art materials for children, this book gives you all the information you need to get started. You'll learn how to:

- \* Pick the best materials for your child's age and learn to make your very own
- \* Prepare art activities to ease children through transitions, engage the most energetic of kids, entertain small groups, and more
- \* Encourage artful living through everyday activities
- \* Foster a love of creativity in your family

Build 11 machines, includes all the LEGO bricks you need. From the 'practical' (a mechanical hand to pick things up for you) to the intriguing (a machine that makes crinkled paper) to the flat-out ridiculous (astronaut training for your mini-figures!), these projects encourage kids to explore the possibilities hidden in their LEGO collection. Inspires open-ended creativity to not just build the models in this book, but also to experiment with their own modifications to be faster, more accurate, or more complex.

What happens if you water plants with juice? Where can you find bacteria in your house? Is slug slime as strong as a glue stick? How would your child find the answers to these questions? In The Curious Kid's Science Book, your child will learn to design his or her own science investigations to determine the answers! Children will learn to ask their own scientific questions, discover value in failed experiments, and — most importantly — have a blast with science. The 100+ hands-on activities in the book use household items to playfully teach important science, technology, engineering, and math skills. Each creative activity includes age-appropriate explanations and (when possible) real life applications of the concepts covered. Adding science to your at-home schedule will make a positive impact on your child's learning. Just one experiment a week will help build children's confidence and excitement about the sciences, boost success in the classroom, and give them the tools to design and execute their own science fair projects.

101 kid-approved science activities and experiments that are an educational and fun way for parents, grandparents and babysitters to spend quality time with kids. These fun, accessible activities will get your kids learning about the world around them, the human body and laws of force, attraction and energy. Holly Homer and Rachel Miller are the women behind the bestselling book 101 Kids Activities That Are The Bestest, Funnest Ever! and the wildly popular site KidsActivitiesBlog.com, which has over 10,000 subscribers, 614,000 Facebook likes and 13,000 Twitter followers. Make pickles glow, mix magnetic mud, build terrariums or explore centrifugal force. With these indoor and outdoor activities, everyday ingredients and tips for adjusting according to your child's age, you'll have hours and hours of fun, learning and discovery with your family. These engaging activities are a perfect way to spend enjoyable quality-time with your kids and to introduce them to the fun of science and discovery.

A girl and her dog set out in their canoe one morning, only to be joined by a series of animals, large and small. Reprint.

Kids discover how cool physics is with 40 fun and engaging experiments created by board-certified science teacher Dr. Col--n that offer a hands-on approach to learning about concepts like force, electricity, heat, and sound. Simple, step-by-step instructions let kids do their own experimentation. Full color.

Science has never been so easy--or so much fun! With The Everything Kids' Science Experiments Book, all you need to do is gather a few household items and you can recreate dozens of mind-blowing, kid-tested science experiments. High school science teacher Tom Robinson shows you how to expand your scientific horizons--from biology to chemistry to physics to outer space. You'll discover answers to questions like: Is it possible to blow up a balloon without actually blowing into it? What is inside coins? Can a magnet ever be "turned off"? Do toilets always flush in the same direction? Can a swimming pool be cleaned with just the breath of one person? You won't want to wait for a rainy day or your school's science fair to test these cool experiments for yourself!

With more than 80 fun experiments, SUPER Science Experiments: Cool Creations is the ultimate lab book for creative kids! This fact- and fun-filled book includes tons of simple, kid-tested science experiments, many of which can be done with items from around the house, and require little-to-no supervision! That's right—no adult help needed. That means no grownups doing all the fun stuff while you watch. You can do lots of messy, cool, mind-blowing experiments all by yourself! All the supplies you need are probably already in your home. No fancy gadgets or doohickeys needed! With SUPER Science Experiments: Cool Creations, kid scientists like you can: Shoot a water gun using Bernoulli's principle Create square bubbles Make eggshell geodes and frost crystals Design colorful jewelry you made from milk Peek through a homemade periscope And complete many other SUPER science experiments! Each experiment features safety precautions, materials needed, step-by-step instructions with illustrations, fun facts, and further explorations. At once engaging, encouraging, and inspiring, the SUPER Science Experiments series provides budding scientists with go-to, hands-on guides for learning the fundamentals of science and exploring the fascinating world around them. Also in this series, check out: At Home, Build It, and Outdoor Fun. There's no better boredom-buster than a science experiment. You will learn something and astound and amaze your friends and family. So, what are you waiting for? Get experimenting!

Stand back! Genius at work! Encase your little bother in a giant soap bubble. Drop mentos into a bottle of diet soda and stand back as a geyser erupts. Launch a rocket made from a film canister. Here are 64 amazing experiments that snap, crackle, pop, ooze, crash, boom, and stink. Giant air cannons. Home-made lightning. Marshmallows on steroids. Matchbox microphones. There's even an introduction to alchemy. (Not sure what that is? Think "medieval wizard.") None of the experiments requires special training, and all use stuff found in the kitchen or in the garden shed. You'd be irresponsible not to try them. ATTENTION, PARENTS: Yes, your kids may need your help with a few experiments. And yes, sometimes it may get a tad messy. But it's not pure mayhem. The balloon rocket whizzing through the garden? It demonstrates Newton's Third Law of Motion. That chunk of potato launched across the kitchen from a tube? Welcome to Boyle's Law. Every experiment demonstrated real science, at its most memorable.

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