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## Serengeti rules worksheet

Skip to main content Showcase Explore About Acquisition Policy Stream now or tune in Wednesday, July 21, 2021 at 8 p.m. on KPBS TV + Sunday, July 25 at 8 p.m. on KPBS 2 Credit: Courtesy of Catherine Watling/Tangled Bank Studios, LLC Above: Tony Sinclair (Greg Kriek) sits in Serengeti's tall grasslands looking through binoculars. —Founders of Modern Ecology Share Scientific Rules That Offer Hope for the Fate of Our Planet— Stream now with the KPBS Video App! Exploring some of the most remote and spectacular places on Earth, five pioneering scientists make surprising discoveries that flip our understanding of nature on its head, and offer new hope for restoring our world in NATURE "The Serengeti Rules." This is one of the most important, but untold, science stories of our time—a tale with profound implications for the fate of life on our planet. Travel back in time with a pioneering group of scientists who make surprising discoveries that transform human understanding of how nature works. Based on a book of the same name. Beginning in the 1960s, a small band of young scientists headed out into the wilderness, driven by an insatiable curiosity about how nature works. Immersed in some of the most remote and spectacular places on Earth — from the majestic Serengeti to the Amazon jungle; from the Arctic Ocean to Pacific tide pools — they discovered a single set of rules that govern all life. Witness scientist Bob Paine's breakthrough discovery of keystone species, through his ingenious experiment with tidepool starfish. Now in the twilight of their eminent careers, these five unsung heroes of modern ecology — Bob Paine, Jim Estes, Mary Power, Tony Sinclair, and John Terborgh — share the stories of their adventures, and how their pioneering work flipped our view of nature on its head. With severe myopia hindering her vision on land, scientist Mary Power's love for aquatic life began when she realized she could see much better underwater. The refraction of the water in her snorkeling mask allowed her to see clearly for the very first time. Across the globe, they discovered that among the millions of species on our planet, some are far more important than others. They called these species "keystones" because they hold communities of plants and animals together, just like a keystone holds a stone arch in place. When keystones are removed, ecosystems unravel and collapse — a phenomenon no one had imagined or understood until their revolutionary discoveries. But with new knowledge also comes new hope, and these same visionaries reveal the remarkable resilience of nature — and how the rules they discovered can be used to restore the natural world, from American lakes to war-ravaged African parks. In the 1960s, ecologist Tony Sinclair made a breakthrough discovery when he observed a huge population surge of wildebeest in the Serengeti. He found that the wildebeest were the key to keeping the ecosystem balanced and that keystone species could be prey as well as predators. Based on the book by Sean B. Carroll, "The Serengeti Rules" will forever change the way we see nature. The broadcast will be accompanied by a media and impact campaign to shine a light on restoration projects across the world. REVIEW + AWARDS: The film, a New York Times critic's pick, which they dubbed, "science made spellbinding," had its world premiere at the 2018 Tribeca Film Festival and won awards at top-film festivals worldwide including Wildscreen's "Smithsonian Channel Theatrical Award," "Best Environmental Film" at the 2019 Vancouver International Mountain Film Festival, "Jury Award" at the 2018 Wild & Scenic Film Festival, "Green Fire Award" at the 2018 American Conservation Film Festival, "Family Friendly Documentary" at the 2018 Maui Film Festival, and the "Golden Owl" at the 2018 Bergen International Film Festival. WATCH ON YOUR SCHEDULE. Episodes will be available for streaming on demand for a limited time after broadcast. Extend your viewing window with KPBS Passport, video streaming for members at \$60 or more yearly, using your computer, smartphone, tablet, Roku, AppleTV, Amazon Fire or Chromecast. Learn how to activate your benefit now, JOIN THE CONVERSATION: NATURE is on Facebook, Tumblr and you can follow @PBSNature on Twitter. #NaturePBS "The Serengeti Rules" is on Facebook and Instagram. CREDITS: NATURE is a production of THIRTEEN PRODUCTIONS LLC for WNET and PBS. For NATURE, Fred Kaufman is executive producer, Bill Murphy is series producer and Janet Hess is series editor. The broadcast version of "The Serengeti Rules" is a production of HHMI Tangled Bank Studios and Passion Planet Ltd in association with Sandbox Films, Thirteen Productions LLC, and WNET. The feature documentary was directed by Nicolas Brown, produced by David Allen and executive produced by David Guy Elisco, Dennis Liu, John Battsek and Andrew Ruherman. The broadcast edit was directed by Alex West, produced by Gaby Bastyra and executive produced by David Guy Elisco and Jared Lipworth. San Diego news; when you want it, where you want it. Get local stories on politics, education, health, environment, the border and more. New episodes are ready weekday mornings. Hosted by Anica Colbert and produced by KPBS, San Diego and the Imperial County's NPR and PBS station. To view PDF documents, Download Acrobat Reader. Below are three resources that bring the science of The Serengeti Rules into the classroom, and for more materials to connect students with the characters and ecology seen in the film, check out HHMI BioInteractive for dozens of video, text, and interactive assets that bring the Serengeti Rules to life. Visit the collection of related materials. VIDEO | Serengeti: Nature's Living Laboratory Tony Sinclair and his studies on wildebeest were featured in the The Serengeti Rules, but the impact of his research extends far beyond that short story. With his fellow researchers, Tony spent five decades piecing together the mystery of the role wildebeest play in shaping the Serengeti ecosystem. Divided into three chapters, this film is designed to align tightly with high school biology curriculum. From core concepts of regulation and carrying capacity, to the fundamental exploration of keystone species, this short film uses the Serengeti case study as a perfect launching point into comprehensive lessons on ecology and biodiversity. CITIZEN SCIENCE | WildCam Gorongosa Students from elementary to high school can take on the role of researchers in this citizen science project nested in Gorongosa National Park in Mozambique. Scientists use remote, motion-sensing trail cameras to monitor and study animal populations in the park. With hundreds of thousands of photos (and counting), these scientists need help identifying the key species as they return to the area. Students are invited to join in the research by helping to identify animals and behaviors seen in the pictures. In an interactive module with dozens of supporting materials, WildCam Gorongosa connects to an online, active citizen science platform where students contribute to the park's growing body of ecology research. INTERACTIVE | Keystone Species Sampler There is no single, unifying description of a keystone species — these animals come in all sizes, across all continents, and impact their ecosystems in wildly different ways. To showcase this diversity, the Keystone Species Sampler interactive takes 15 keystones from across the globe and condenses their backgrounds into an easy-to-read tour of ecosystem research. From the southern reaches of Patagonia to the islands of the Indian Ocean, students are invited to explore a wide range of stories that showcase why "keystone" is a critical term in understanding how systems function. SaveSave for later How does life work? How does nature produce the right numbers of zebras and lions on the African savanna, or fish in the ocean? How do our bodies produce the right numbers of cells in our organs and bloodstream? In The Serengeti Rules, award-winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions, and shows how their discoveries matter for our health and the health of the planet we depend upon.One of the most important revelations about the natural world is that everything is regulated—there are rules that regulate the amount of every molecule in our bodies and rules that govern the numbers of every animal and plant in the wild. And the most surprising revelation about the rules that regulate life at such different scales is that they are remarkably similar—there is a common underlying logic of life. Carroll recounts how our deep knowledge of the rules and logic of the human body has spurred the advent of revolutionary life-saving medicines, and makes the compelling case that it is now time to use the Serengeti Rules to heal our ailing planet.— Now an Emmy-Winning film —Reviews of The Serengeti Rules"The Serengeti Rules is a superb journey of a book written by a scientist of the first rank. Unfolding seamlessly from molecule to ecosystem, it explains with authority and grace why modern biology is central not just to human life but to that of the planet itself." —Edward O. Wilson, Harvard University and author of Half-Earth"As one of our leading biologists and communicators, Sean Carroll has merged a passion for scientific discovery with a flair for telling great stories of exploration. In The Serengeti Rules, Carroll has crafted a work of epic sweep that travels the globe in search of the logical rules that govern all of life, from tiny molecules to entire ecosystems. The Serengeti Rules both delights and enlightens—I was left marveling at the human achievement behind scientific breakthroughs and the sheer beauty of the working of living systems." —Neil Shubin, author of Your Inner Fish: A Journey into the 3.5-Billion-Year History of the Human Body"This is a rattling good read by one of the leading scientists of our time. The Serengeti Rules made me think differently about what we biologists do. This is a book that needs to be shouted from the rooftops." —Andrew F. Read, Pennsylvania State University"Masterful and compelling. The Serengeti Rules is a significant contribution, one that will be welcomed by professional biologists and a wide range of lay readers." —Harry W. Greene, author of Tracks and Shadows: Field Biology as Art"The Serengeti Rules is a visionary book, which celebrates the new wisdom and the men and women who have brought the vision to pass." —The Guardian serengeti rules worksheet answers. the serengeti rules worksheet answer key



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