

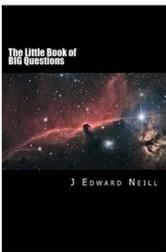


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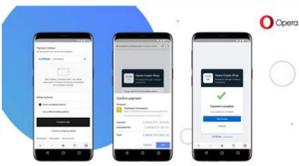
Informed Consent Form

FORM 2 OF 3

This form describes in detail how the study works and your role in it. Your signature means you understand and agree to participate.

BEFORE YOU SIGN, YOU SHOULD KNOW

- This study aims to advance understanding of how activity and your habits can contribute to a healthier heart.
- As a participant, you'll be asked to complete occasional, short surveys and record your workouts on your Apple Watch.
- The study will last at least 5 years. You'll be asked to renew your consent every 2 years.
- Participation is voluntary. You can leave the study at any time and stop sharing your data at any time.
- The study will do its best to ensure your data is kept confidential and secure. As with all studies, complete confidentiality cannot be guaranteed.



Related Content: Stephen Hawking (RIP) Explains His Revolutionary Theory of Black Holes with the Help of Chalkboard Animations Stephen Hawking's Ph.D. Thesis, "Properties of Expanding Universes," Now Free to Read/Download Online Watch A Brief History of Time, Errol Morris' Film About the Life & Work of Stephen Hawking The Big Ideas of Stephen Hawking Explained with Simple Animation Watch Stephen Hawking's Interview with Neil DeGrasse Tyson, Recorded 10 Days Before His Death: A Last Conversation about Black Holes, Time Travel & More Based in Seoul, Colin Marshall writes and broadcasts on cities, language, and culture. His projects include the book The Stateless City, a Walk through 21st-Century Los Angeles and the video series The City in Cinema. In later life he could communicate only by using a few facial muscles, but he continued to advance his field and serve as a revered voice on social and humanitarian issues. Hawking not only unraveled some of the universe's greatest mysteries but also believed science plays a critical role in fixing problems here on Earth. But the celebrated astrophysicist's death earlier this year — after an astonishingly long life and career, given the challenges he faced — took that option away. It helped revive an appetite for popular science books, especially those with space for time, wonder, alien intelligence, superhumans and God. Brief Answers is one of his last projects, completed for him after he died. "If the universe adds up to nothing, then you don't need a God to create it. A Brief History of Time joined the bestseller lists as soon as it appeared in 1988 and stayed there into the next decade. "We think it's a pretty good step, but there is a lot more work to be done." As Hawking surely knew, the big questions — in physics or any other realm of existence — never quite get fully answered. In between, there are personal responses to the God question, the colonisation of space question, the artificial intelligence question, the survival of the planet question, and even his Desert Island Discs. The observable universe fashioned itself without a cause, and has a net energy of zero. Free UK p&p over £10, online orders only. In the next 50 years, he says, "we will find out what happened at the big bang. One takes a fresh look at the problem of just how complex the universe far beyond our horizon could be; the other returns to the intractable but apparently not entirely insoluble problem of what happens to information once it falls into a black hole. We may even discover whether life exists elsewhere in the universe. As he says more than once, he prefers optimism to pessimism. He has appeared as a co-author in two posthumous research papers since he died in March. This page will also tell you how you can reject cookies and still obtain access to NPR's sites, and you can adjust your cookie choices in those tools at any time. is a hopeful one." —CNN "Brisk, lucid peeks into the future of science and of humanity." —The Wall Street Journal "Hawking pulls no punches on subjects like machines taking over, the biggest threat to Earth, and the possibilities of intelligent life in space." —Quartz "Effortlessly instructive, absorbing, up to the minute and —where it matters—witty." —The Guardian "This beautiful little book is a fitting last twinkle from a new star in the firmament above." —The Telegraph The late Stephen Hawking did not believe in an afterlife, but he has one all the same. Can we predict the future? #1 NEW YORK TIMES BESTSELLER • The world-famous cosmologist and author of A Brief History of Time leaves us with his final thoughts on the biggest questions facing humankind. "Hawking's parting gift to humanity . NPR's sites use cookies, similar tracking and storage technologies, and information about the device you use to access our sites (together, "cookies") to enhance your viewing, listening and user experience, personalize content, personalize messages from NPR's sponsors, provide social media features, and analyze NPR's traffic. If you click "Agree and Continue" below, you acknowledge that your cookie choices in those tools will be respected and that you otherwise agree to the use of cookies on NPR's sites. It sold more than 20m copies in 40 languages and turned an astronomer into a star, famous enough to twinkle in guest appearances in Star Trek and The Simpsons. Should we colonize space? To order a copy for £12.89 (RRP £14.99) go to guardianbookshop.com or call 0330 333 6846. See details. "The book is quintessential Hawking," writes physics professor Marcelo Gleiser at NPR. Does God exist? YOUR CHOICES Score: 0% Rank: Correct Answer: How did it all begin? Is there a god? This second paper is a response to a paradox that concerns only theoretical physicists but the first addresses the machinery of creation that seems to have needed no creator. Not surprisingly, he returns to both themes and many more in what his publishers call his final thoughts. Now, as we face immense challenges on our planet—including climate change, the threat of nuclear war, and the development of artificial intelligence—he turns his attention to the most urgent issues facing us. For those readers who invested in A Brief History and perhaps never quite finished it, there is good news: almost everything in Brief Answers is effortlessly instructive, absorbing, up to the minute and —where it matters—witty. "We don't know that Hawking entropy accounts for everything you could possibly throw at a black hole, so this is really a step along the way." Hawking's collaborator Malcolm J. It turns out, though, that we haven't actually heard the last of him: his last book, Brief Answers to the Big Questions (whose trailer you can watch just above), came out just this week. Hawking and Roger Penrose proved mathematically in 1965 that time, space and matter must have had a beginning in an infinitely small, dense point. They call this sheen of photons "soft hair." If that sounds tricky to understand, all of us who have appreciated Hawking's writing know that we can at least go back to his books to get a grip on black holes and the questions about them that get scientists most curious. "He starts by addressing the questions in physics and cosmology that he dedicated his intellectual life to answer, using easy-to-follow arguments and drawing from everyday images and thought experiments." Hawking's answers to the big questions figure into his view of not just the world but all existence: he believes, writes Gleiser, "that humanity's evolutionary mission is to spread through the galaxy as a sort of cosmic gardener, sowing life along the way. Radioastronomers separately identified tantalising evidence of creation inscribed in the cosmos that year. You may click on "Your Choices" below to learn about and use cookie management tools to limit use of cookies when you visit NPR's sites. Featuring a foreword by Eddie Redmayne, who won an Oscar playing Stephen Hawking, an introduction by Nobel Laureate Kip Thorne, and an afterword from Hawking's daughter, Lucy, Brief Answers to the Big Questions is a brilliant last message to the world. Praise for Brief Answers to the Big Questions "[Hawking is] a symbol of the soaring power of the human mind." —The Washington Post "Hawking's final message to readers . "At one point I thought I would see the end of physics as we know it, but now I think the wonder of discovery will continue long after I am gone." Brief Answers to the Big Questions is published by John Murray. Perry tells Sample. "If humanity is to continue for another million years, our future lies in going boldly where no one else has gone before. "People who argue for good education for all, a decently funded NHS and serious investment in research will rediscover him as a friend, a book every thinking person worried about humanity's future should read." —NPR NAMED ONE OF THE BEST BOOKS OF THE YEAR BY Forbes • The Guardian • Wired Stephen Hawking was the most renowned scientist since Einstein, known both for his groundbreaking work in physics and cosmology and for his mischievous sense of humor. For decades, many of us turned to Stephen Hawking for answers to those questions, or at least supremely intelligent suggestions as to where the answers might lie. These are just a few of the questions Hawking addresses in this wide-ranging, passionately argued final book from one of the greatest minds in history. . Let's make sure that wisdom wins." He warns that human aggression and new technologies — nuclear warheads, AI, genetic engineering, global warming — could destroy the entire human race and much of the rest of life on Earth. He doesn't think much of the anti-immigration ideologies of Brexit or Trump, but says so with brevity. And he concedes that despite all the amazing advances of cosmological physics in his lifetime, the final theory that defines why the universe is as it is, the theory of everything, seems as far away as it did in 1988. Phone orders min p&p of £1.99. Hawking also pursued another unknowable object to establish the theoretical reality of an elusive entity, instantly dubbed Hawking radiation, from within the forbidden frontiers of a black hole. There is no way of physically demonstrating the reality of either universal self-manufacture or Hawking radiation, but his scientific peers embrace his reasoning. "So too will a property called entropy, a measure of an object's internal disorder, which rises the hotter it gets." In the paper Hawking and his collaborators show that "a black hole's entropy may be recorded by photons that surround the black hole's event horizon, the point at which light cannot escape the intense gravitational pull. We will

come to understand how life began on earth. There is a graceful foreword by Eddie Redmayne, who played Hawking in The Theory of Everything, the 2014 film of his life; there is a thoughtful introduction by his colleague and friend Kip Thorne, the Californian scientist behind the identification, in 2016, of gravitational waves generated by the collision of two black holes; there is a touching afterword by his daughter Lucy Hawking. His latest book is, however, a market test of what is known within the publishing world as the Hawking effect. This information is shared with social media, sponsorship, analytics, and other vendors or service providers. That doesn't bother him. The universe is the ultimate free lunch," he writes.It would be, he says "our worst mistake ever" to dismiss the notion of highly intelligent machines as mere science fiction. And he wants more manned space exploration. Pioneering thinkers leave their names on their science. Much remains for future astrophysicists to work on about that "information paradox," to do with where, exactly, everything that seemingly gets sucked into a black hole actually goes. Follow him on Twitter at @colinmarshall or on Facebook. It draws on half a million or so words stored over the decades in the form of essays, lectures, keynote speeches and - since A Brief History of Time made him a celebrity and his long struggle against illness made him an icon - it addresses some of the questions that, over the decades, so many people had often asked him.Those who followed Hawking the writer after 1988 will find much that seems familiar. The Guardian's science editor Ian Sample describes it as a "career-long effort to understand what happens to information when objects fall into black holes," capped off by a posthumously published paper titled "Black Hole Entropy and Soft Hair." "Toss an object into a black hole and the black hole's temperature ought to change," writes Sample. He educated millions of readers about the origins of the universe and the nature of black holes, and inspired millions more by defying a terrifying early prognosis of ALS, which originally gave him only two years to live. Will humanity survive? He believes, even if not without worry, that we will develop a positive relationship with intelligent machines and that, together, we will redesign the current fate of the world and of our species." In parallel with his career as a public figure and writer of popular explanatory books, which began with 1988's A Brief History of Time, Hawking performed scientific research on black holes. Is there other intelligent life in the universe? "Our future is a race between the growing power of our technology and the wisdom with which we use it.

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