

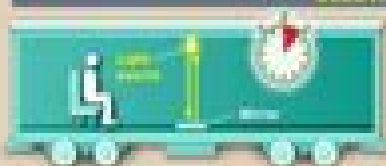
EINSTEIN'S THEORY OF RELATIVITY

There are two Theories of Relativity: the Special and the General. The Special Theory shows that movement over a straight line at a constant speed is always relative to any observer. The General Theory extends the Special Theory from uniform to accelerated motion, movement at a changing speed to over a non-straight path.

SPECIAL THEORY OF RELATIVITY

Based in a basic assumption: the speed of light is always the same regardless of the speed of the light source or observer. This fact has unexpected and astonishing ramifications.

RELATIVITY OF TIME

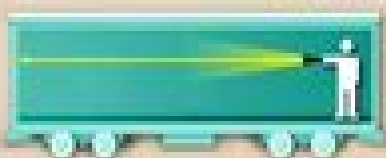


1 A man is riding on a moving train. He is timing a ray of light that travels from a source in the ceiling to a mirror on the floor and back to the ceiling. From his point of view the light source and the mirror are stationary, so the light travels directly down and up in a perfectly vertical ray.

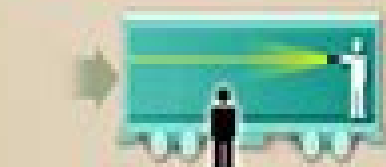
2 From the point of view of a stationary observer standing outside the train, the light source and the mirror are moving, so the light follows a path in the shape of a V. This path is longer than the one observed by the man on the train. Since light travels at the same speed for any observer, from the stationary point of view the ray takes longer than from the perspective of the man on the train. Or, in other words, time passes slower for the man in the train than for the stationary observer. So, there is no meaning to the concept of absolute time. Time is relative to the observer.



RELATIVITY OF LENGTH



3 The man in the train is now trying to measure the length of the car by sending a ray of light from one end to the other. Knowing the speed of light and the time the ray takes to reach the other end he can calculate the length of the car.



4 From the point of view of the stationary observer the end of the train is moving to meet the ray of light, so it has to travel a shorter distance. The stationary observer will calculate a shorter length for the car than the man in the train. So, there is no meaning to the concept of absolute length. Length is relative to the observer.

HISTORY'S FAMOUS EQUATION

Another important idea of the Special Theory of Relativity is the equivalence of mass and energy: mass can be converted into energy and vice versa. This relationship is expressed in the equation

$$E=mc^2$$

The energy E is contained in any quantity of mass m , that quantity of mass m multiplied by the speed of light c squared by it. Now, c^2 is an enormous number, which is why a little bit of mass contains a tremendous amount of energy. A dramatic example of the power of mass and energy in practice is the atomic bomb, which converts into energy a tiny piece of uranium.

GENERAL THEORY OF RELATIVITY

The theory asserts that accelerated motion is relative to the observer, as the Special theory did for the uniform motion. It shows that inertia (the force that presses you against the back of your seat when your car accelerates) and gravity are equivalent forces, two sides of the same phenomenon.

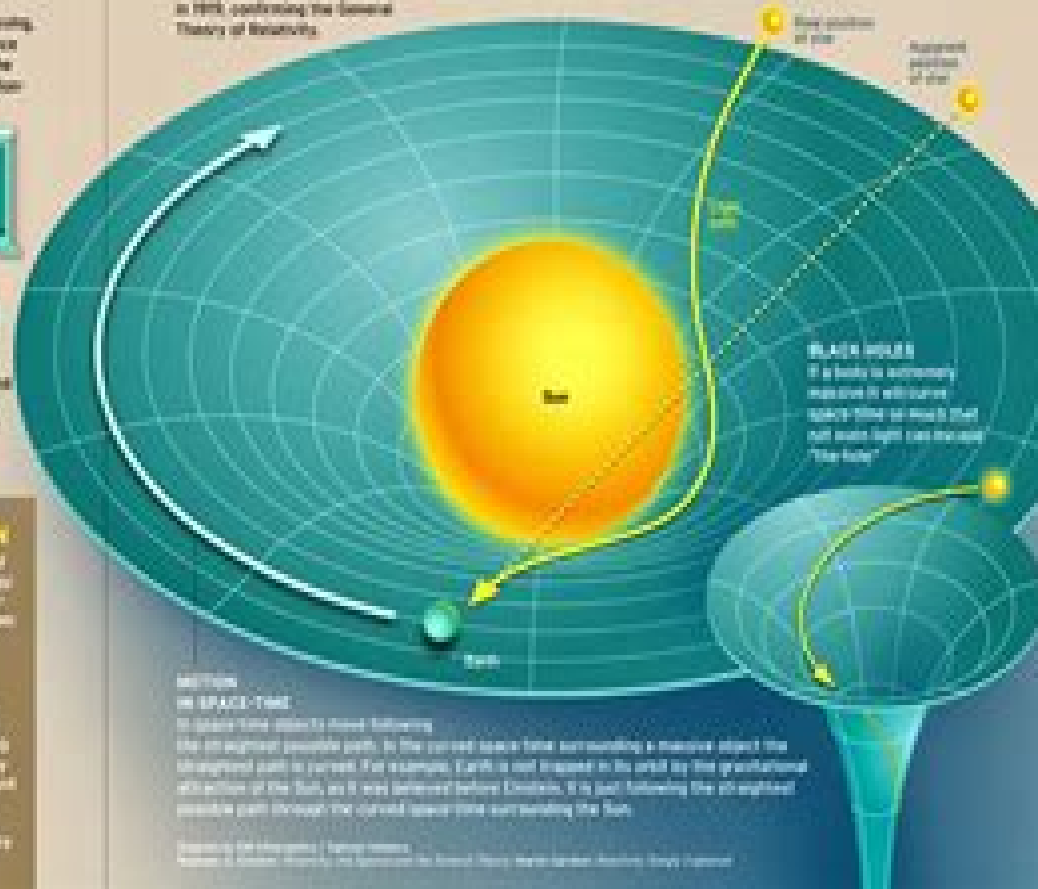
THE EQUIVALENCE OF ACCELERATION AND GRAVITY

A man is inside an elevator that is accelerating upwards at a constant rate. The forces he experiences (that pressing on the floor) and the way objects fall are indistinguishable from those produced by gravity.



THE CURVED SPACE-TIME OF GRAVITY

According to Einstein gravity is not a force at all. It is a distortion or curvature of the space-time (a four-dimensional compound of the three dimensions of space plus time) that occurs around any massive body (for example, the Sun). It's like a rubber sheet being bent by a weight placed in its center. Even light curves when passing close to a massive body. Thus the position of a star appears displaced if its light pass close to the Sun. This effect was observed in 1919, confirming the General Theory of Relativity.



BLACK HOLES
If a body is extremely massive it will curve space-time so much that not even light can escape "the hole".

WORMHOLE IN SPACE-TIME

In space-time objects don't follow the straight possible path, in the curved space-time surrounding a massive object the straightest path is curved. For example, Earth is not trapped in its orbit by the gravitational attraction of the Sun, as it was believed before Einstein. It is just following the straightest possible path through the curved space-time surrounding the Sun.

Theory Of Relativity For Kids

Baby Professor



Theory Of Relativity For Kids:

Albert Einstein and Relativity for Kids Jerome Pohlen, 2012-10-01 Best known for his general theory of relativity and the famous equation linking mass and energy $E = mc^2$ Albert Einstein had a lasting impact on the world of science the extent of which is illuminated along with his fascinating life and unique personality in this lively history In addition to learning all about Einstein's important contributions to science from proving the existence and size of atoms and launching the field of quantum mechanics to creating models of the universe that led to the discovery of black holes and the big bang theory young physicists will participate in activities and thought experiments to bring his theories and ideas to life Such activities include using dominoes to model a nuclear chain reaction replicating the expanding universe in a microwave oven creating blue skies and red sunsets in a soda bottle and calculating the speed of light using a melted chocolate bar Suggestions for further study a time line and sidebars on the work of other physicists of the day make this an incredibly accessible resource for inquisitive children

General Relativity for Kids Booksgeek, 2024-02-15 general relativity for kids book Dive into the wonders of the universe with Einstein Book for Kids about General Relativity a colorful and captivating journey designed for young minds This book simplifies the complex world of Einstein's theories making the advanced topics of space time and gravity accessible and engaging for curious kids Have You Ever Wondered about the mysteries of the cosmos From Newton's Law of Gravitation to the mind bending concepts of space time this book covers it all with vibrant illustrations and easy to understand explanations Your child will explore the stretchy fabric of the universe the magic of mass black holes and even the possibility of time travel all through fun and interactive content Witness the awe inspiring Supernova Spectacle and unravel the enigma of black holes with The Cosmic Mystery Peas and The Mystery of Black Holes The book demystifies Einstein's groundbreaking eclipse observation and celebrates his greatest hits in the world of physics It delves into gravitational waves the concept of gravity's remote control and the fascinating effects of time dilation Ever wondered how satellites and super fast spaceships experience time differently Or how astronauts age in space Einstein Book for Kids about General Relativity answers these questions and more offering a glimpse into the 4D universe and the role of relativity in modern technology like GPS Perfect for young explorers eager to understand the universe this book promises to spark a lifelong interest in science With its engaging content and stunning visuals it's an ideal addition to any child's library encouraging them to dream big and explore the limitless possibilities of the cosmos Give your child the gift of knowledge and imagination with this must have guide to the universe

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period of dramatic change in America Audiences marveled at the speed with which the Kids answered the most difficult questions vaulting the show beyond the producers wildest expectations Eleanor Roosevelt invited the Kids to the White House to meet with them Their appearance at the Senate is discussed in the Congressional Record During World War II they toured America and raised 120 million in war bonds They were guests on Jack Benny s radio show for three consecutive weeks Walt Disney Bob Hope Fred Allen the Lone Ranger Gene Autry and other famous people were on their program This thorough history describes the creation of the program its national popularity and the children who made it such good listening

Intentional Responsive Adult Practices: Supporting Kids to Not Only Overcome Adversity but to Thrive Erik K Laursen, PhD,2018-07-12 This book draws on positive psychology as well as strengths based and solution focused practices to empower adults to help children instead of reacting to their behavior Erik K Laursen PhD who has spent his career helping high risk children and their families identifies ten intentional responsive adult practices to give children the tools they need to overcome adversity Learn how to support young people to grow and develop throughout childhood adolescence into young adulthood provide supportive relationships where children and young people thrive and help children overcome social and emotional problems that are significant barriers to well being While numerous books articles and courses focus on the long term effects of childhood trauma this knowledge alone does not give us the tools we need to help children thrive By learning how to reflect and intentionally respond to children s pain which is the focus of this book you ll be able to help young people transform their lives

Kid Concoctions, Creations & Contraptions (eBook) Robynne Eagan,2005-03-01 A little science a little arts and crafts a little math a lot creative and a whole lot of fun Full of activities and ideas that give free reign to students curiosity and stretch their creativity Opportunities to investigate create and discover in all areas of the curriculum Clear step by step instructions make the activities easy and fun for students while the aims and objectives extension activities and assessment tools make it a helpful resource for teachers

Physics Over Easy Leonid V. Az roff,2010 During a sequence of meals the author relates the principal features of physics in easy to understand conversations with his wife Beth Beginning with the studies of motion by Galileo and Newton through to the revolutionary theories of relativity and quantum mechanics in the 20th century all important aspects of electricity energy magnetism gravity and the structure of matter and atoms are explained and illustrated The second edition similarly recounts the more recent application of these theories to nanoparticles Bosendash Einstein condensates quantum entanglement and quantum computers By including accurate measurements of the Cosmic Microwave Background and supernovae in near and distant galaxies an understanding of how the universe was formed in an Inflationary Big Bang is now possible We ve also gained a much better picture of the life of stars and how they may turn into red giants white dwarfs black holes neutron stars or pulsars

How to Parent So Children Will Learn Sylvia B. Rimm,2021-04-23 Dr Rimm provides practical compassionate no nonsense advice for raising happy secure and productive children from preschool to college This book contains easy to

follow parent pointers sample dialogues and step by step examples to show parents how to select appropriate rewards and punishments decrease arguments and power struggles set limits nurture creativity encourage appropriate independence without giving children too much power guide children toward good study habits and much more Parents will refer to the topics in this book again and again

Children and Nature Peter H. Kahn, Jr., Stephen R. Kellert, 2002-05-03 For much of human evolution the natural world was one of the most important contexts of children's maturation Indeed the experience of nature was and still may be a critical component of human physical emotional intellectual and even moral development Yet scientific knowledge of the significance of nature during the different stages of childhood is sparse This book provides scientific investigations and thought provoking essays on children and nature Children and Nature incorporates research from cognitive science developmental psychology ecology education environmental studies evolutionary psychology political science primatology psychiatry and social psychology The authors examine the evolutionary significance of nature during childhood the formation of children's conceptions values and sympathies toward the natural world how contact with nature affects children's physical and mental development and the educational and political consequences of the weakened childhood experience of nature in modern society

Children's Television United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Telecommunications and Finance, 1993

I Low Kay Hwa, 2013-04-01 What if Facebook Twitter and YouTube are used as a weapon to unleash the evilness in all people Would we succumb to our primitive drive Print Book Price RM48.39 SGD 18.90 USD 15.09 Full Money back Guarantee Your satisfaction is our priority Don't like the story after purchasing it Simply refund it from Google Play Book with a click if purchase is made within seven days or email us No questions asked

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