

Solutions Advanced Progress Test Unit 6 Oxford

Its creation was endorsed by the newly created British Rail Board (BRB) in 1963 and incorporated personnel and existing resources from all over the country, including the LMS Scientific Research Laboratory. It was primarily based at the purpose-built Railway Technical Centre in Derby. In addition to its domestic activities, the Research Division would provide technology and personnel to other countries for varying purposes and periods under the trade name "Transmark". It became... 46b9327179

Schwarzschild metric It was found by Karl Schwarzschild in 1916. however, did not recognize that their solutions were just coordinate transforms, and in fact used their solution to argue that Einstein's theory was wrong In Einstein's theory of general relativity, the Schwarzschild metric (also known as the Schwarzschild solution) is an exact solution to the Einstein field equations that describes the gravitational field outside a spherical mass, on the assumption that the electric charge of the mass, angular momentum of the mass, and universal cosmological constant are all zero. The solution is a useful approximation for describing slowly rotating astronomical objects such as many stars and planets, including Earth and the Sun 46b9327179

Advanced Passenger Train APT-E APT-P APT-E at Old Dalby APT-P high speed pantograph tests on WCML Advanced Passenger Train Info Site Advanced Passenger The Advanced Passenger Train (APT) was a tilting high speed train developed by British Rail during the 1970s and early 1980s, for use on the West Coast Main Line (WCML). The WCML contains many curves, and the APT pioneered the concept of active tilting to address these, a feature that has since been copied on designs around the world. 2 miles per hour (261. 3 miles per hour (245. to Advanced Passenger Train. 1 km/h), only to be surpassed by the service prototype APT-P at 162. 0 km/h) in December 1979. The experimental APT-E achieved a new British railway speed record on 10 August 1975 when it reached 152 46b9327179

Median lethal dose LD50 figures are frequently used as a general indicator of a substance's acute toxicity. The value of LD50 for a substance is the dose required to kill half the members of a tested population In toxicology, the median lethal dose, LD50 (abbreviation for "lethal dose, 50%"), LC50 (lethal concentration, 50%) or LCt50 is a toxic unit that measures the lethal dose of a given substance. The value of LD50 for a substance is the dose required to kill half the members of a tested population after a specified test duration. unit that measures the lethal dose of a given substance. A lower LD50 is indicative of higher toxicity 46b9327179

The term LD50 is generally attributed to John William Trevan. The test was created by J. W. Trevan in 1927. The term semilethal dose is

occasionally used in the same sense, in particular with translations of foreign language text, but can also refer to a sublethal dose. LD50 is usually determined by tests on animals such as laboratory... 46b9327179

Unit 731 A glass-walled chamber about three meters square [97 sq ft] and two meters [6. 6 ft] high was used Unit 731 (Japanese: 731部隊, Hepburn: Nana-san-ichi Butai), officially known as the Manchu Detachment 731 and also referred to as the Kamo Detachment and the Ishii Unit, was a secret research facility operated by the Imperial Japanese Army between 1936 and 1945. a poison gas test held at the Unit 731 test facilities. It was located in the Pingfang district of Harbin, in the Japanese puppet state of Manchukuo (now part of Northeast China), and maintained multiple branches across China and Southeast Asia 46b9327179

In vitro Colloquially called "test-tube experiments", these studies in biology and its subdisciplines are traditionally done in labware such as test tubes, flasks, Petri dishes, and microtiter plates. In contrast to in vitro experiments, in vivo studies are those conducted in living organisms, including humans, known as clinical trials,. Colloquially called "test-tube experiments", these studies in biology and its subdisciplines are traditionally done in labware such as test tubes, flasks, Petri In vitro (meaning in glass, or in the glass) studies are performed with cells or biological molecules outside their normal biological context. Studies conducted using components of an organism that have been isolated from their usual biological surroundings permit a more detailed or more convenient analysis than can be done with whole organisms; however, results obtained from in vitro experiments may not fully or accurately predict the effects on a whole organism 46b9327179

British Rail Research Division Control Group. It was charged with conducting research into improving various aspects of Britain's railways, particularly in the areas of reliability and efficiency, including achieving cost reductions and increasing service levels. Later on, when the revolutionary Advanced Passenger Train (APT) was being developed, a second test track was created on the line between Melton The British Rail Research Division was a division of the state-owned railway company British Rail (BR) 46b9327179

Technological unemployment A contemporary example. Technological change typically includes the introduction of labour-saving "mechanical-muscle" machines or more efficient "mechanical-mind" processes (automation), and humans' role in these processes are minimized. Thousands of man-years of work was performed in a matter of hours by the bombe codebreaking machine during World War II. this option has generally not even been considered as a solution, at least not for the advanced economies. Just as horses were gradually made obsolete as transport by the automobile and as labourer by the tractor, humans' jobs have also been affected throughout modern history. Even commentators who are pessimistic about The term technological unemployment is used to describe the loss of jobs caused by technological change. It is a key type of structural unemployment. Historical examples include artisan weavers reduced to poverty after the introduction of mechanized looms (See: Luddites) 46b9327179

Final Solution including the Einsatzgruppen reports, which documented the progress of the mobile killing units assigned, among other tasks, to murder Jewish civilians during The Final Solution or the Final Solution to the Jewish Question was a plan orchestrated by Nazi Germany during World War II for the genocide of individuals they defined as Jews. The "Final Solution to the Jewish question" was the official code name for the murder of all Jews within reach, which was not restricted to the European continent. This policy of deliberate and systematic genocide starting across German-occupied Europe was formulated in procedural and geopolitical terms by Nazi leadership in January 1942 at the Wannsee Conference held near Berlin, and culminated in the Holocaust, which saw the murder of 90% of Polish Jews, and two-thirds of the Jewish population of Europe 46b9327179

According to Birkhoff's theorem, the Schwarzschild metric is the most general spherically symmetric vacuum solution of the Einstein field equations. A Schwarzschild black hole or static black hole is a black hole that has neither electric... 46b9327179 The nature and timing of the decisions that led to the Final Solution is an intensely researched and debated aspect... 46b9327179 Unit 731 was responsible for large-scale biological and chemical warfare research, as well as lethal human experimentation. The facility was led by General Shirō Ishii and received strong support from the Japanese military. Its activities included infecting prisoners with deadly diseases, conducting vivisection, performing organ harvesting, testing... 46b9327179

Exam g. A test may be administered verbally, on paper, on a computer, or in a predetermined area that requires a test taker to demonstrate or perform a set of skills. , beliefs). An examination (exam or evaluation) or test is an educational assessment intended to measure a test-taker's knowledge, skill, aptitude, physical fitness An examination (exam or evaluation) or test is an educational assessment intended to measure a test-taker's knowledge, skill, aptitude, physical fitness, or classification in many other topics (e 46b9327179

Development of the service prototypes progressed slowly, and by the late 1970s the design had been under construction for a decade and the trains were still not ready for service. Facing the possibility of cancellation, BR... 46b9327179 A test may be administered formally or informally. An example of an informal... 46b9327179

Memetics The term "meme" was coined by biologist Richard Dawkins in his 1976 book *The Selfish Gene*, to illustrate the principle that he later called "Universal Darwinism". Dawkins proposed that the same process drives cultural evolution, and he called this second replicator the "meme," citing examples such as musical tunes, catchphrases, fashions, and technologies. Evolution of Solutions to Difficult Problems, uses memes, the evolutionary algorithm, and the scientific method to show how complex solutions evolve over Memetics is a theory of the evolution of culture based on Darwinian principles with the meme as the unit of culture. Like genes, memes are selfish replicators. All evolutionary processes depend on information being copied, varied, and selected, a process also known as variation with selective retention. The conveyor of the information being copied is known as the replicator, with the gene functioning as the replicator in biological evolution 46b9327179

Tests vary in style, rigor and requirements. There is no general consensus or invariable standard for test formats and difficulty. Often, the format and difficulty of the test is dependent upon the educational philosophy of the instructor, subject matter, class size, policy of the educational institution, and requirements of accreditation or governing bodies. 46b9327179

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