

**Passage II**

In 1908, an object from outer space devastated 2,000 km² of forest in Siberia. The object was between 10 m and 100 m in diameter and traveled at a maximum speed of 15 km/sec. It exploded at an altitude of 8 km and released energy equivalent to 20 million tons of TNT. Two scientists discuss whether this object was a comet or an asteroid.

Scientist 1

The object was a comet, a body made of ices (such as frozen water or methane) and dust. Most of this cometary material is volatile (easily vaporized) and low in density. Friction in Earth's atmosphere heated the comet to a temperature at which it exploded, high above the ground. The majority of the ices and dust were vaporized in the explosion, which explains why no crater was formed at the site and why no large, identifiable fragments of the object were found. An asteroid would not have been completely destroyed. Intact asteroid fragments that reached the ground would have created one or more craters upon impact and left behind recoverable pieces. Evidence shows that the object decelerated rapidly before it exploded. Because of their low density, comets are capable of such rapid deceleration, whereas high-density objects, such as asteroids, are not.

Scientist 2

The object was a stony asteroid. As it entered Earth's atmosphere, its high speed created a large air pressure difference between the area just in front of the asteroid and the area just behind the asteroid. The large pressure difference eventually exceeded the structural strength of the asteroid. The asteroid flattened, decelerated rapidly due to the dramatic increase in its surface area, and fragmented before reaching the ground. This fragmentation would have appeared like an explosion. Calculations show that a comet between 10 m and 100 m in diameter would explode at an altitude much higher than 8 km, but a stony asteroid of that size would fragment at or near an altitude of 8 km. Recovery of large asteroid fragments is difficult due to the area's boggy soil; however, small, glassy fragments were recovered and are believed to be melted and resolidified pieces of the asteroid.

6. Which of the following phrases best describes the major point of difference between the 2 scientists' hypotheses?

F. The location of the event
G. The speed the object was traveling
H. The density of Earth's atmosphere
J. The type of object that entered Earth's atmosphere

7. According to Scientist 2's viewpoint, compared to the altitude at which a stony asteroid would have exploded in Earth's atmosphere, a comet of similar size would most likely have exploded at:

A. the same altitude.
B. a higher altitude.
C. a slightly lower altitude.
D. a much lower altitude.

8. Scientist 1's viewpoint indicates that when the materials that compose most of a comet are sufficiently heated, they change to:

F. solids.
G. gases.
H. liquids.
J. a vacuum.

9. Which of the following statements best describes how Scientist 2 would explain why no large, identifiable fragments of the object have been recovered?

A. Any large, identifiable fragments that reached the ground have been removed from the area by erosion.
B. Any large, identifiable fragments were thrown hundreds of kilometers from the site.
C. No large, identifiable fragments of the object reached the ground.
D. No large, identifiable fragments of the object have been recovered due to the soil conditions in the area.

Act Applied Technology Practice Test

Anthony S. Fauci



Act Applied Technology Practice Test:

Tech Tally National Research Council, National Academy of Engineering, Committee on Assessing Technological Literacy, 2006-07-27 In a broad sense technology is any modification of the natural world made to fulfill human needs or desires Although people tend to focus on the most recent technological inventions technology includes a myriad of devices and systems that profoundly affect everyone in modern society Technology is pervasive an informed citizenship needs to know what technology is how it works how it is created how it shapes our society and how society influences technological development This understanding depends in large part on an individual level of technological literacy *Tech Tally Approaches to Assessing Technological Literacy* determines the most viable approaches to assessing technological literacy for students teachers and out of school adults The book examines opportunities and obstacles to developing scientifically valid and broadly applicable assessment instruments for technological literacy in the three target populations The book offers findings and 12 related recommendations that address five critical areas instrument development research on learning computer based assessment methods framework development and public perceptions of technology This book will be of special interest to individuals and groups promoting technological literacy in the United States education and government policy makers in federal and state agencies as well as the education research community **The Praxis Series Official Practice Test:**

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active controls technology ACT and a recommended ACT development program plan are reviewed The performance benefits and cost of ownership of an integrated application of ACT to civil transport aircraft is to be assessed along with the risk and laboratory and or flight experiments designed to reduce the technical risks to a commercially acceptable level **Advanced Concrete Technology: Testing and quality** John Brian Newman,B. S. Choo,2003 **Effective Mainstreaming** Spencer J. Salend,1994 *Aviation Week, Including Space Technology* ,1930 Includes a mid December issue called Buyer guide edition *Current Index to Journals in Education* ,1993 **Developments in Industrial Technology** ,1921 **Journal of the Society of Glass Technology** Society of Glass Technology,1918 *Journal of the Society of Glass Technology* Society of glass technology, Sheffield, Eng,1918 *Information Technology Law in Australia* Olujokè Akindemowo,1999 This exciting new text is an account of the development of Australian law in an extremely dynamic context a statement of current Australian responses to local international information technology law developments Information Technology Law in Australia provides a clear concise exposition of the legal issues raised by contemporary uses of computers telecommunications the Internet Current issues forecast developments are explained analysed in the context of the Australian legal regulatory environment A number of Australian statutes codes of conduct reports are reviewed reference is made to significant international developments such as the 1996 WIPO Copyright Treaty the 1996 UNCITRAL Model Law on Electronic Commerce Information Technology Law in Australia examines the major developments in this newly emerging area of the law including the history evolution of information technology law electronic commerce year 2000 liability criminal liability regulatory policy issues raised by digital cash internet abuses patents copyright digital data privacy rights internet judicial issues The material presented is logically structured easy to understand Relevant concepts are explained avoiding confusing jargon Diagrams tables flowcharts a glossary of key terms are included Information Technology Law Institute ,2008 *Corporate Technology Directory* ,1986 This multi volume directory which lists more than 40 000 companies is indexed by company name geographic area SIC code and non U S parent companies Profiles are provided for each company listed and company rankings given under each industry Technology Manchester (Greater Manchester). College of Science and Technology,1923 **International Library of Technology** ,1902

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