

## Chapter 40 Nuclear Fission And Fusion Answers

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### Chapter 40 Nuclear Fission And

Energy released by fission 0 20 40 60 80 100 120 140 160 180 200 220 240 Mass number (A)  
Plutonium Plutonium is created in most nuclear reactors Part of the nuclear waste Can be separated by a chemical process Waste is said to be "reprocessed" Plutonium-240 fissions spontaneously, so it is difficult to handle.

### Chapter 40: Nuclear Fission and Fusion

Nuclear fission occurs when a. a nucleus divides spontaneously with no apparent reason b. electrical forces inside a nucleus overpower nuclear forces c. we cut nuclei in two with a very small cutting device d. one nucleus bumps into another causing a chain reaction

### Chapter Test 40 - Nuclear Fission and Fusion Flashcards ...

In a nuclear reaction, the nucleus of a large atom is split into two or more fragments. In a chemical reaction, the particles in the nucleus are changed, and one element is transformed into another element when particles in the nucleus are gained or lost.

### Chapter 40: Nuclear Fission and Fusion - Practice Test ...

The Nuclear Fission and Fusion chapter of this Prentice Hall Conceptual Physics Companion Course helps students learn the essential lessons associated with nuclear fission and fusion.

### Chapter 40: Nuclear Fission and Fusion - Videos & Lessons ...

A nuclear fission reactor that not only produces power but produces more nuclear fuel than it consumes by converting a non fissionable uranium isotope into a fissionable plutonium isotope.

### Chapter 40: Nuclear Fission and Fusion Vocabulary Flashcards

Chapter 40: Nuclear Fission and Fusion Questions. Description. Chapter 40 Nuclear Fission and Fusion Questions. Total Cards. 21. Subject. Physics. Level. 11th Grade. Created. 01/17/2012. Click here to study/print these flashcards. Create your own flash cards! Sign up here.

### Chapter 40: Nuclear Fission and Fusion Questions Flashcards

11/16/07 11:45:51 AM CHAPTER 40 NUCLEAR FISSION AND FUSION 811 Critical Mass The critical mass is the amount of mass for which each fission event produces, on the ... NUCLEAR FISSION AND FUSION 40 NUCLEAR ...

### NUCLEAR FISSION AND FUSION 40 NUCLEAR ...

chapter 40 physics. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. steven\_glenn2. Terms in this set (26) What is the role of electrical forces in nuclear fission? ... are the fission fragments from a nuclear reactor light medium or heavy elements. medium weight and neutron rich.

### chapter 40 physics Flashcards | Quizlet

ejected neutrons. Compared with the mass of a uranium nucleus that undergoes fission, the

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combined masses of the products after fission are less. Plutonium is an element that is chemically a poison that can cause paralysis and death. A nuclear fission reactor is an elegant way to heat water.

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Nuclear fission and fusion involve the disintegration and combination of the elemental nucleus. In the case of nuclear fission, an atom divides into two or more smaller or lighter atoms. Nuclear fusion occurs when two or more atoms join or fuse together to form a large or heavy atom.

### Difference Between Nuclear Fission and Nuclear Fusion ...

The release of energy in nuclear fission is consistent with the fact that uranium has a) more mass per nucleon than either of the two fragments. b) less mass per nucleon than either of the two fragments. c) has exactly the same mass per nucleon as the two fragments. d) has more mass per nucleon as the two fragments.

### Nuclear Fission And Fusion Questions (ID: 6281)

40.1 Nuclear Fission (pages 809-811) 1. What is nuclear fission? 2. Is the following sentence true or false? A delicate balance between the strong force and electrical forces of repulsion exists inside a nucleus. 3. Circle the letter that describes why nuclear fission occurs. a. the electrical forces and nuclear strong forces repel each other b. the electrical forces decrease suddenly

### Exercises - The University of Tennessee at Chattanooga

Nuclear fusion and nuclear fission are different types of reactions that release energy due to the presence of high-powered atomic bonds between particles found within a nucleus. In fission, an atom is split into two or more smaller, lighter atoms.

### Nuclear Fission and Fusion - Difference and Comparison ...

Play Nuclear Fission And Fusion games in an arcade style format! Review games like Crazy Taxi, Pacman and Soccer merged with trivia questions about Chapter 40 Hewitt Conceptual Physics to review and study for tests (6281).

### Nuclear Fission And Fusion Games (ID: 6281)

Nuclear fission is the splitting of a large atomic nucleus into smaller nuclei. In a nuclear reactor, a neutron is absorbed into a nucleus (typically uranium-235). This causes the nucleus to ...

### Nuclear fission - Nuclear fission and fusion - AQA

(Assignment 25 (Chapter 19) Nuclear Fission and Fusion < 3 of 10 > Review | Constants Periodic Table - Part A Certain heavy nuclei undergo nuclear fission when struck by neutrons, breaking apart into fragment nuclei and releasing a large amount of energy.

### Solved: (Assignment 25 (Chapter 19) Nuclear Fission And Fu ...

Fission and fusion are mainly the result of nuclear bombardment reactions - the forceful collisions of nuclear particles and/or nuclei together, whereas nuclear decays are just individual nuclei emitting particles or rays. Natural fission is relatively rare on earth and natural fusion occurs only in stars.

### Science chapter 16c Flashcards | Quizlet

258 CHAPTER 14 Nuclear fusion is essentially the antithesis of the fission process. Light nuclei are combined in order to release excess binding energy and they form a heavier nucleus. Fusion reactions are responsible for the energy of the sun. They have also been used on earth for

### Chapter 14 NUCLEAR FUSION

The splitting of the nucleus of a heavy atom, such as uranium-.... A self-sustaining reaction in which the products of one reacti.... The minimum mass of fissionable material in a reactor or nucle.... A fission reactor that is designed to breed more fissionable f....

### chapters 34 physics fission Flashcards and Study ... - Quizlet

Nuclear fission is a process whereby a nucleus splits in half. Only a select number of radioactive elements are fissionable. The chain reaction and the concept of critical mass are also discussed.

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