

Name \_\_\_\_\_

Date \_\_\_\_\_

## Student Exploration: Nuclear Reactions

**After to teachers and students:** This Gizmo was designed as a follow-up to the Nuclear Decay Gizmo. The movement along the activity button brings this one.

**Key vocabulary:** chain reaction, CNO cycle, catalytic, deuterium, electron volt, fission, fusion, isotope, nuclear reaction, neutron, proton emission, proton-proton (pp) chain reaction, thermal energy, number of protons, neutron

**Prior Knowledge Questions (Please REROLL using the Gizmo.)**

The chart is to right gives the following:

mass, electron charge, number of protons, and

number of neutrons of these isotopes.

What do you notice about the isotope number and the sum of protons and neutrons?

Isotopes have the same number of protons and neutrons.

2. The element symbol for uranium-238 is  $^{238}\text{U}$ . This nucleus has a total mass of 238 and contains 92 protons. Write the element symbol for the isotope in the box.

**Hydrogen-1**  $^1\text{H}$       **Carbon-12**  $^{12}\text{C}$       **Uranium-238**  $^{238}\text{U}$

### Glenn Tamm-up

The Nuclear Reaction Gizmo simulation is a particle accelerator. Particle acceleration is used to allow for very high velocities. Then, the atom is impacted with enough energy to cause charged nuclear reactions. There are three particle beams available in the Gizmo: protons, neutrons, and helium-3 nuclei.

1. Click the Proton to engage the first particle beam.

What happens? Nothing. And then it does. No. It's just a beam.

2. Clicking particles don't always meet. Click React, and then click the neutron.

A. Does a reaction occur? NO

B. Explain Nothing. And then it does.

Activity A Proton-proton	Click the Gizmo first		Reaction status	Result
	Click React	Is any Proton-proton is selected in the Reaction		

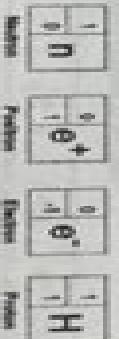
Introduction: At 100 km hydrogen isotope fusion is a process called nuclear fission. 2001 performs this process in different ways. In this Gizmo the proton-proton chain is used. This reaction requires temperatures greater than 1,000,000 K to occur.

Question: How does the process of fusing two hydrogen into helium in stars?

1. Observe that the proton and electron. What happens after the proton carries the electron?  $^1\text{H} + ^1\text{H} \rightarrow ^2\text{He} + ^1\text{H}$

2.  $^1\text{H} + ^1\text{H} \rightarrow ^2\text{He} + ^1\text{H}$

3. Observe that the beta particle. Observe what happens. Many subatomic particles appear (possibly in nuclear reactions). Their element symbols are given below.



(Neutrons  $^1\text{H}$  are also produced but are beyond the scope of this Gizmo.)

Click React and click the proton. Look at the He-3 box equation description. Based on what you have observed, write in the equation for this reaction in the Gizmo and below.



Correct your equation! Is your predicted equation correct? YES

Correct your equation! Is necessary. The resulting He-3 is not balanced.

B. Unbonded energy is released in a reaction with He-3, when one He-3 is equal to 1.5 MeV.

(Activity A continued on next page)

# Answer Guide To Nuclear Chemistry

**JG Myers**

## Answer Guide To Nuclear Chemistry:

**Study Guide for Chemical Principles** Thomas Elliott Taylor,1979    **Kaplan SAT Subject Test Chemistry**

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General Science Technical Ability The General Science Technical Ability section has been divided into Physics Chemistry and Biology The book provides thoroughly updated Current Affairs section 1 Previous year Solved Paper of 2013 2014 2018 each Detailed theory along with practice questions and shortcuts to solve problems Exhaustive question bank at the end of each chapter in the form of Exercise Solutions to the Exercise have been provided at the end of each chapter *Disha Guide to RRB Assistant Loco Pilot (ALP) Stage I & II Exam with Previous Year Questions - 4th Edition | Indian Railway Recruitment Board* Disha Experts, The updated and revised 4th edition of the book Guide to RRB Assistant Loco Pilot ALP Exam Stage I II covers Comprehensive Sections on General Awareness Arithmetic General Intelligence Reasoning and General Science Technical Ability The General Science Technical Ability section has been divided into Physics Chemistry and Biology The book provides thoroughly updated Current Affairs section Previous year Solved Paper of 2024 2018 Stage I II Detailed theory along with practice questions and shortcuts to solve problems Exhaustive question bank at the end of each chapter in the form of Exercise Solutions to the Exercise have been provided at the end of each chapter **Chemistry Jeopardy** Brian Pressley,2002 A quiz game designed to reinforce key chemistry concepts ideas and facts **General Chemistry Workbook** Daniel C. Tofan,2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

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