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Nuclear Reactions Webquest

Instructions. Go to the website: pettinatochem.weebly.com and click on the Nuclear Energy Webquest link. Explore the webpage and its external links to answer the questions on this worksheet.

Nuclear Reactions

It's A Question Of Physics: What's The Difference Between Fission And Fusion?

(external link: <http://atomic.lindahall.org/what-is-fission-and-fusion.html>)



1. What is a nuclear reaction?
2. During these reactions mass is lost. According to Einstein's equation $E=mc^2$, what is this mass converted to?
3. What are the two types of nuclear reactions used to produce energy?
4. In a single atom of uranium-235, how many protons, neutrons, and electrons compose the atom?
5. When a uranium atom absorbs a neutron, it undergoes fission. What is released from the fission reaction?
6. In the special case at which _____ has been achieved, some of the neutrons that are released during fission can be used to bring about more splitting, producing a very fast chain reaction.
7. Describe what happens in a fusion reaction.
8. What is the source of energy in a fusion reaction?
9. How do stars like our sun generate their energy? What elements are involved in and produced in this process?

Answers To Nuclear Reactions Webquest

**Thirumalaisamy P.
Velavancorresponding**



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Nuclear Reactions, 1957 High Energy Nuclear Reactions Jerome Hudis, 1960 The literature has been searched for references pertaining to high energy reactions of interest to nuclear chemists Nuclear Science Abstracts was the main source of references and wherever possible the complete abstract was retained Nuclear Tables. Pt. 2. Nuclear Reactions W. Kunz, J. Schintlmeister, 1968 Types of Nuclear Reactions M. Crescentia Legrand, 1954 **Nuclear Reactions** Pieter Maarten Endt, Marcel Demeur, 1959 *Selected Papers on Nuclear Reactions.*, 1984 **Resource Letter NR-1 on Nuclear Reactions** T. A. Griffy, **Understanding the Atom, Fallout from Nuclear Tests** U.S. Atomic Energy Commission, 1963 **Statistical and Nuclear Reactions** V. Weisskopf,

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