




NUCLEAR REACTIONS WEBQUEST

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Fusion on Hydrogen

1. Hydrogen fusion is the _____ reaction in which hydrogen _____ fuse together under very high temperature and _____ to create _____.
2. This reaction releases _____ amounts of energy and is responsible for the heat and light created by the _____.
3. *Real world connections:* How was hydrogen fusion used after WWII?
4. *Real world connections:* Why are scientists developing hydrogen fusion in power plants?
5. The Hydrogen Fusion Reaction occurs over several steps
 - a. Step 1: 2 hydrogen nuclei (_____) fuse together to form a _____ and a _____.
 - A deuteron is the nucleus of deuterium (_____) atom
 - A positron is a positively charged _____
 - ${}^1_1\text{H} + {}^1_1\text{H} \rightarrow {}^2_1\text{H} + {}^0_1\text{e}^+$ 
 - b. Step 2: Each deuteron combines with one _____ to form a _____ nucleus.
 - ${}^2_1\text{H} + {}^1_1\text{H} \rightarrow {}^3_2\text{He}$ 
 - c. Step 3: 2 ${}^3_2\text{He}$ collide to form a _____ nucleus.
 - This reaction regenerates 2 free _____, which can participate in a new round of _____ 
 - ${}^3_2\text{He} + {}^3_2\text{He} \rightarrow$ _____ + _____ + _____
 - d. The end reaction for the fusion of hydrogen to helium is
 - $4 \text{ } {}^1_1\text{H} \rightarrow$ _____ + $2 \text{ } {}^0_1\text{e}^+$
 - e. Positrons from fusion collide with _____ present in the sun's core. These particles _____ each other, and the mass is converted into _____ in the form of _____ rays.
6. All stars in the universe consume _____ as fuel. The fusion reaction produces heat and light and is the first step in the creation of _____. Only _____ stars have the _____ & _____ needed to create the _____ elements.
7. *Science Connections:* The amount of energy released by fusion can be calculated by the equation _____. About _____% of the mass of hydrogen used is converted into _____.

Nuclear Reactions Webquest Answer Key

Shao-Hua Chao



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Statistical and Nuclear Reactions V. Weisskopf, *Three-body Equations for Nuclear Reactions* Shao-Hua Chao, 1900

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