

NUCLEAR REACTIONS WEBQUEST

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You will be doing 3 different **chem tours click the link that matches the heading **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 _____
 - ${}_{1}^{2}\text{H} + {}_{1}^{2}\text{H} \rightarrow {}_{2}^{3}\text{H} + {}_{1}^{0}\text{e}$ 
 - b. Step 2: Each deuteron combines with one _____ to form a _____ nucleus.
 - ${}_{1}^{2}\text{H} + {}_{1}^{2}\text{H} \rightarrow {}_{2}^{3}\text{He}$ 
 - c. Step 3: 2 ${}_{2}^{3}\text{He}$ collide to form a _____ nucleus.
 - This reaction regenerates 2 free _____, which can participate in a new round of _____.
 - ${}_{2}^{3}\text{He} + {}_{2}^{3}\text{He} \rightarrow$ _____ + _____ + _____ 
 - d. The end reaction for the fusion of hydrogen to helium is
 - ${}_{1}^{2}\text{H} + {}_{1}^{2}\text{H} \rightarrow {}_{2}^{3}\text{He} + {}_{1}^{0}\text{e}$
 - 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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