

Chapter 11 The Atomic Nature of Matter
Atoms and Atomic Nuclei

ATOMS ARE CLASSIFIED BY THEIR ATOMIC NUMBER, WHICH IS THE SAME AS THE NUMBER OF PROTONS IN THE NUCLEUS.



TO CHANGE THE ATOMS OF ONE ELEMENT INTO THOSE OF ANOTHER, PROTONS MUST BE ADDED OR SUBTRACTED!



Use the periodic table in your text to help you answer the following questions.

1. When the atomic nuclei of hydrogen and lithium are squashed together (nuclear fusion) the element that is produced is _____

2. When the atomic nuclei of a pair of lithium nuclei are fused, the element produced is _____

3. When the atomic nuclei of a pair of aluminum nuclei are fused, the element produced is _____

4. When the nucleus of a nitrogen atom absorbs a proton, the resulting element is _____

positive

5. What element is produced when a gold nucleus gains a proton? _____

6. What element is produced when a gold nucleus loses a proton? _____

7. What element is produced when a uranium nucleus ejects an elementary particle composed of two protons and two neutrons? _____

8. If a uranium nucleus breaks into two pieces (nuclear fission) and one of the pieces is zirconium (atomic number 40), the other piece is the element _____

9. Which has more mass, a nitrogen molecule (N_2) or an oxygen molecule (O_2)? _____

10. Which has the greater number of atoms, a gram of helium or a gram of neon? _____



Don't forget!

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Chao Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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