

Name: _____ Period: _____ Date: _____

Isotopes Exit Quiz – Teacher Edition

Decide whether the following statements regarding isotopes are true or false. Correct the false ones to make them true.

1. Isotopes have the same number of neutrons but vary in their number of protons.
2. The chemical properties of the isotope of an element are similar.
3. Hydrogen has three known isotopes –protium, deuterium and tritium.
4. The physical properties of the isotope of an element are similar.
5. The ratio of subatomic particles in the atoms nucleus affects its stability.

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Decide whether the following statements regarding isotopes are true or false. Correct the false ones to make them true.

1. Isotopes have the same number of neutrons but vary in their number of protons.
False- Isotopes have the same number of PROTONS but differ in the number of NEUTRONS they possess.
2. The chemical properties of the isotopes of an element are similar.
True
3. Hydrogen has three known isotopes –protium, deuterium and tritium.
True
4. The physical properties of the isotopes of an element are similar.
False – the physical properties of an element’s isotopes are different due to the number of neutrons they have.
5. The ratio of subatomic particles in the atoms nucleus affects its stability.
True