



Name: _____
Period: _____

KEY

Nuclear Radiation Worksheet

1. a. What determines whether an atom is stable or unstable?

Its overall size and a difference between proton # and neutron #

- b. How does an unstable atom gain stability?

It undergoes radioactive decay

- c. What part of an atom undergoes change during radioactive decay?

The nucleus!

2. Which of the human senses can detect radiation?

Our eyes can detect colors, but we have no senses to detect alpha, beta, or gamma radiation

3. Explain the difference between an isotope and a radioactive isotope.

An isotope has a different # of protons & neutrons. Radioactive is larger, unstable, and has a different # of p

4. Distinguish between alpha, beta, and gamma radiation on the basis of the following:

Particle	Mass	Charge	Penetrating power
Alpha	4 amu, 2 neutrons, 2 protons	Positive (+)	Stopped by paper or paper
Beta	0 Neutrons (consists of)	Negative (-)	Stopped by sheets of tin foil or thick magazine
Gamma	0 Neutrons	Neutral	Stopped by several inches of lead or feet of concrete

5. How are the mass number and atomic number of a nucleus affected by the loss of the following?

Particle	Mass Number Change	Atomic Number Change
Alpha	-4	-2
Beta	No change	+1
Gamma	No change	No change

6. Complete the equations for the decay processes below by supplying the missing atomic numbers and mass numbers.



7. Complete the following nuclear equations:



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M Tight



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Prentice Hall Chemistry, 2000 **Resources in Education**, 1997 The Emory-Tibet Science Initiative, a Novel Journey in Cross-Cultural Science Education Arri Eisen, Meena M. Balgopal, Gillian Hue, Robin Nusslock, Joel Zivot, 2022-05-10

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