

Nuclear Radiation Worksheet

1. a. What determines whether an atom is stable or unstable?
Its overall size and a balance between protons and neutrons.

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 sense to detect alpha, beta, or gamma radiation.

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

An isotope has a different set of protons and neutrons. Radioactive isotope is less stable, and has a short half-life.

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

Particle	Mass	Charge	Penetrating power
Alpha	Four protons	Positive (+)	Stopped by skin or paper
Beta	One Neutron (0.0005)	Negative (-)	Stopped by sheet of metal or skin, or glass
Gamma	One Neutron	Neutral	Stopped by several inches of lead or foot 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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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

Trauma Team Dynamics Lawrence M. Gillman,Sandy Widder,Michael Blaivas MD,Dimitrios Karakitsos,2015-11-02 This is the first book exploring the unique dynamics created by a multidisciplinary trauma team and how crisis management strategies can improve teamwork and communication and potentially improve patient resuscitation outcomes Crisis resource management CRM is integral to the way that we manage ourselves team members and patients during emergency situations It is essentially the ability to translate knowledge of what needs to be done into effective actions during a crisis situation Building on the revolutionary American College of Surgeons Advanced Trauma Life Support ATLS course Trauma Team Dynamics illustrates the integration of the principles of CRM to team dynamics throughout the resuscitation from the scene through pre hospital care and transport to the trauma bay and finally to definitive care and beyond The editors and contributors are international experts in trauma critical care emergency medicine nursing respiratory therapy and pre hospital care and include NASA and United States military affiliated experts Trauma Team Dynamics is intended for use as both a day to day clinical resource and a reference text and includes self assessment questions as well as guidance on CRM curriculum design and implementation *Science Digest* ,1983 **Paper** ,1961 Papers submitted for presentation to American Rocket Society national convention *Parenting for High Potential* ,2001 **Monthly Catalog of United States Government Publications** ,1985 **Resources in Education** ,1997 *Nuclear India* ,1974 *Nuclear Energy Insight* ,1997 *Genetic Engineering News* ,2005 **Film User** ,1962 **Cornell Engineer** ,1957 **Leonardo** ,1984 International journal of contemporary visual artists *New York Herald Tribune Book Review* ,1961 *Government Reports Announcements & Index* ,1985 *Current Index to Journals in Education* ,1983 Tell ,1991 *Stevens Indicator* ... ,1967

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