



American Nuclear Society

ANS NUCLEAR SCIENCE MERIT BADGE

Radiation Health and Safety Quiz

Name: _____

1. (True/False) Visible light is a type of radiation.
2. (True/False) A Cloud Chamber can be used to track the path of electrically charged particles.
3. (True/False) The power industry is the only industry that utilizes nuclear science.
4. (True/False) Radioactive decay is measured in terms of double-lives.
5. (True/False) A Geiger Counter can be used to detect radiation.
6. (True/False) Marie Curie discovered the X-ray.
7. (True/False) Ionization is caused when an electron is added to or removed from an atom.
8. _____ is a charged particle given off by a radioactive element.
 - a. Alpha particle
 - b. Beta particle
 - c. Neutron
 - d. Both A & B
9. To reduce the amount of radiation you receive from a source you should:
 - a. Increase the distance between you and the radiation source
 - b. Use shielding
 - c. Reduce the time you are exposed to the source as much as you can
 - d. All of the above
10. ALARA stands for:
 - a. A Lion Ate Real Apples
 - b. A Local And Regional Assessment
 - c. A Lemur Ate Ross's Avocado
 - d. As Low as Reasonably Achievable