



American Nuclear Society

ANS NUCLEAR SCIENCE MERIT BADGE

Radiation Health and Safety Quiz

ANSWER KEY

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. **D** 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**