

Name Key Class \_\_\_\_\_ Date \_\_\_\_\_

## Nuclear Decay

### Types of Radiation

1. Complete the table below to compare the properties of alpha, beta, positron, and gamma radiation.

| Name         | Alpha                 | Beta         | Positron      | Gamma                  |
|--------------|-----------------------|--------------|---------------|------------------------|
| Greek letter | $\alpha$              | $\beta^-$    | $\beta^+$     | $\gamma$               |
| Symbol       | ${}^4_2\text{He}$     | ${}^0_{-1}e$ | ${}^0_{+1}e$  | N/A                    |
| Composition  | $2p^+$ , $2n^0$       | electron     | anti-electron | EM wave                |
| Charge       | $2+$                  | $1-$         | $1+$          | $0$                    |
| Stopped by   | paper, skin, clothing | wood, glass  | wood, glass   | thick concrete or lead |

### Nuclear Decay Reactions

In problems 2 – 5, fill in the missing particle for each nuclear decay reaction. Then, match each equation to the appropriate type of nuclear decay.



A. alpha emission



B. beta emission



C. electron capture



D. positron emission

In problems 6 and 7, write a balanced equation for each nuclear decay reaction.

6. Decay of radium-223 by alpha ( $\alpha$ ) emission.



7. Decay of iodine-126 by positron ( $\beta^+$ ) emission.



8. How are the atomic number and mass number of a nuclide affected by positron emission?

Atomic number decreases by one. Mass number stays the same.

9. How are the atomic number and mass number of a nuclide affected by the emission of gamma radiation?

Both atomic number and mass number stay the same since gamma radiation has no mass or charge.

10. Which has a slightly greater mass in a nuclear reaction, the reactants or the products? Why?

The reactants have a slightly greater mass. In a nuclear reaction, a small amount of mass is converted to energy according to the equation  $E = mc^2$ . The difference in mass is referred to as the mass defect.

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**RJ Alexander**



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**Scientific American** ,1899 *Nuclear Energy* ,1985 **The Shock and Vibration Bulletin** ,1987 **Nature** Sir Norman Lockyer, 1899 Decommissioning of Nuclear Power Plants K H Schaller, B Huber, 2012-12-06 **Radiological Issues for Fukushima's Revitalized Future** Tomoyuki Takahashi, 2016-01-12 This book overviews environmental issues 4 years after the Fukushima nuclear accident covering a wide range of areas related to radiation and radioactivity The topics discussed are necessary to make clear the relationship between the results of research and Fukushima's revitalized future The chapters are divided into four parts Part 1 presents the identification of radionuclides in soil and migration of radionuclides in the terrestrial environment Part 2 describes the safety decontamination system and treatment of radioactive waste Part 3 explains the development of the system of measurement of environmental radiation and evaluation of external exposure and Part 4 discusses the identification of radionuclides in farm products control of root uptake identification of decreasing radionuclides by food processing and evaluation of internal exposure Since the accident at the Tokyo Electric Power Company's Fukushima Daiichi nuclear power station in 2011 gradual steps have been taken toward environmental recovery in the area However there are still many issues that need to be tackled in order to achieve the full revitalization of Fukushima These issues encompass many different disciplines such as economics psychology and sociology In this kind of situation the role of science in relation to radiation and radioactivity is especially important This book aims to contribute to planning countermeasures against nuclear disasters in the future It will be of particular interest to governmental officials who are engaged with the Fukushima nuclear accident researchers including those in international sectors who are interested in radiological issues and those who need comprehensive and reliable information about the Fukushima accident

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