

Name: \_\_\_\_\_

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**Balancing Nuclear Equations**

For the following nuclear reactions, complete the nuclear equation by filling in the missing reactant or product. Then label what type of reaction it is: nuclear fission, nuclear fusion, alpha decay, beta decay, or gamma decay. Then answer the question below. **NOTE:** reactants are not written in the equations below.

1a. Balance!



b. Type of Reaction? \_\_\_\_\_

2a. Balance!



b. Type of Reaction? \_\_\_\_\_

3a. Balance!



b. Type of Reaction? \_\_\_\_\_

4a. Balance!



b. Type of Reaction? \_\_\_\_\_

5a. Balance!



b. Type of Reaction? \_\_\_\_\_

6a. Balance!



b. Type of Reaction? \_\_\_\_\_

7a. Balance!



b. Type of Reaction? \_\_\_\_\_

8a. Balance!



b. Type of Reaction? \_\_\_\_\_

9. What does alpha decay do to an atom's mass and atomic numbers?

\_\_\_\_\_

\_\_\_\_\_

10. What does beta decay do to an atom's mass and atomic numbers?

\_\_\_\_\_

\_\_\_\_\_

11. What does gamma decay do to an atom's mass and atomic numbers?

\_\_\_\_\_

\_\_\_\_\_



12. The reaction above is an example of a reaction that happens during the detonation of a uranium atomic bomb. This is called a nuclear **fuel** because a heat-producing chain reaction takes place that can sustain itself. In the reaction above, what reactant or product indicates to you that a chain reaction can take place? Explain your answer.

\_\_\_\_\_

\_\_\_\_\_

# Homework Nuclear Chemistry

**SJ Ball**



## **Homework Nuclear Chemistry:**

## Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Homework Nuclear Chemistry**

In a world inundated with screens and the cacophony of immediate interaction, the profound power and psychological resonance of verbal art usually diminish in to obscurity, eclipsed by the continuous assault of sound and distractions. However, set within the lyrical pages of **Homework Nuclear Chemistry**, a charming work of literary beauty that impulses with natural feelings, lies an wonderful journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, this exciting opus guides readers on a mental odyssey, delicately revealing the latent potential and profound influence embedded within the complex internet of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is key subjects, dissect their charming publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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