

1. What is the most penetrating radiation?
2. Which particle both begins and is produced by a nuclear chain reaction?
3. Which radiation has neither charge nor mass?
4. How do alpha and beta particles compare?
5. What is radioactivity?
6. What is released during gamma decay?
7. What is an alpha particle composed of?
8. What can stop an alpha particle?
9. What element is a fuel for nuclear fusion?
10. What is released by beta decay?
11. What is a positron?
12. What is mass number?
13. What is radioactive decay?
14. What is the charge and mass of an electron?
15. What are the benefits of using nuclear power?
16. What is an example of an uncontrolled chain reaction.
17. What is the definition of a nuclear chain reaction?
18. How can large atoms be forced to split?
19. What is nuclear fusion?
20. Does a smoke detector use radioactive isotopes?
21. How many $1/2$ lives have passed if a sample contains $1/4$ of its original radioactive material?
22. What is a half-life?
23. Why does the C-14 in a living organism stay about the same?
24. How does a nucleus become stable?
25. What does the strong force do?
26. Elements with more than _____ protons are radioactive?
27. Why does nuclear radiation damage living cells?
28. Describe the penetration of alpha rays?
29. What can stop beta rays?
30. Why do atomic nuclei emit radiation?
31. Know how to figure $1/2$ lives and ages using radioactive dating.
32. What does a control rod in a nuclear power plant do?
33. In the sun's core, what does H fuse into?
34. Where are the H isotopes used for fusion commonly found?