POGIL Activity: Types of Radioactive Decay

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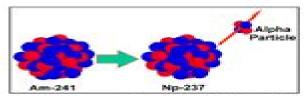
Radioactive Decay Processes

Non-ionizing radiation is produced in a variety of ways. Infrared light is radiated by everything around us: anything with a temperature glows, just not visibly. Visible light can be produced by heating a solid, such as the heating element in a toaster which glows red. It can also be produced by atomic emission, which is how LED lights work.

If something is hot enough it will even produce ultraviolet light, as the Sun does. X-rays are produced by very violent or energetic astronomical events and by special x-ray vacuum tubes in medical labs. Gamma rays, being strictly nuclear radiation, are only produced by excited atomic nuclei.

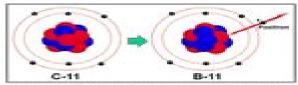
Ionizing radiation can also be particles with mass, charge, and a very high speed. Such particles are emitted by unstable atomic nuclei. These nuclei change from an unstable parent nucleus to a more stable daughter nucleus, usually by emitting a particle. For one type of decay it involves absorbing a particle.

Alpha Decay



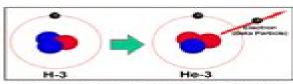
An americium-241 nucleus emits an alpha particle and becomes a neptunium-237 nucleus.

Positron Decay



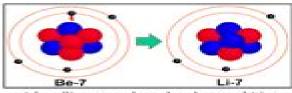
A carbon-11 nucleus emits a positron and becomes a boron-11 nucleus.

Beta Decay



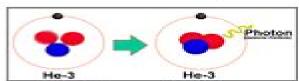
A hydrogen-3 (or tritium) nucleus emits an electron and becomes a helium-3 nucleus.

Electron Capture



A beryllium-7 nucleus absorbs an orbiting electron and becomes a lithium-7 nucleus. Nothing is emitted.

Gamma Decay



An excited helium-3 nucleus releases excess potential energy as a gamma-ray photon.

Model 1

Answer the following questions using Model 1.

L How many protons and neutrons does the americium-241 nucleus have? How many does the neptunium-237 nucleus have?

Nuclear Decay Pogil

Ivan G. Draganic, Jean-Pierre Adloff

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Radiation and Radioactivity on Earth and Beyond Ivan G. Draganic, Jean-Pierre Adloff, 2020-08-26 This book features information regarding the Chernobyl nuclear accident the production of elementary particles radiation exposure the geopolitical effects of the end of the nuclear arms race between the U S and the former Soviet Union and the future of Nuclear Decay Scheme Studies Jackie Devon Woodward,1968 nuclear power Studies in Nuclear Decay Bernd Crasemann, 1953 SPALLDKZ Roger Andrew Gard,1999 Nuclear Decay D. Russell Humphreys, Institute for Creation Research.2002 Nuclear Decay Scheme Studies of 109-d127mTe, 9.4-h127qTe and 2.2-h127qSn Kenneth Ellis **Determination of Nuclear Decay Schemes by the Coincidence Method** James Arthur Cooley,1952 Apt,1971 **Evidence for Variation in Nuclear Decay Rates** ,2012 Handbook of Nuclear Decay Modes Dorin N. Nuclear Decay Curve Analysis Ditmar Bock, 1969 **Radial Pattern of Nuclear Decay Processes** Poenaru, 1993-11-01 Włodzimierz Iskra, Markus Müller, Ingrid Rotter, 2010 Nuclear Decay Scheme Studies of 30-h (131)Te(m), 25-min (131)Te(g), and 55.5-min (105)Cd Sydney Vern Jackson, 1975 **Nuclear Decay Processes in the Presence of a Laser Beam** James William Meyer, 1965 A Relative Method for Determination of Nuclear Decay Rates Donald Douglas The Determination of Nuclear Decay Schemes by Burgess, McMaster University. Department of Chemistry, 1974 **Absorption and Coincidence Measurements** John Patrick Lonergan, 1951 Nuclear Decay Scheme Studies of 30-h 131Te/sup M/, 25-min 131Te/ Sup G/, and 55.5-min 1°5Cd ,1975 Radioactive Clouds of Death over Utah Dr. Daniel W. Miles, 2013-01-31 I have completed the manuscript with the tentative title Radioactive Clouds of Death Over Utah From 1950 to the 1958 moratorium on atmospheric testing the Atomic Energy Commission detonated over 100 atomic bombs at the Nevada Test Site The inhabitants of St George Utah the so called downwinders were repeatedly in the fly zone of these toxic wind blown clouds so much so that St George became known nationwide as Fallout City USA According to the back cover of John Fuller's 1984 best seller The Day We Bomb Utah America's Most Lethal Secret Within a few years a plague of cancer and birth defects had ripped through the area a plaque that may have caused the cancer related deaths of John Wayne and over 100 other cast and crew members of The Conquerer which was filmed only miles from the test site Actually it was filmed only five miles from St George Utah Congressman Jim Matheson alleged in a recent op ed article in the Deseret News that the horrendous legacy of radioactive fallout is still killing downwinders Thousands of citizens throughout the West continue to get sick and die from radiation exposure caused illnesses From an editorial in the February 15 2001 issue of the Deseret News the federal government literary sacrificed the health of thousands of unsuspecting Utahan and Nevadans The focus of Radioactive Clouds of Death Over Utah is to retrospectively consider both the short term and long term health effects of radioactive fallout exposure on downwinders from the perspectives of the downwinders the tort lawyers the government itself politicians producers of five television documentaries writers of six popular books hundreds of magazine and newspaper

articles and many scientific studies on fallout health effects on Utah residents Recently the Utah press has featured many fallout cancer stories giving much weight to anecdotal accounts downwinders have been featured in the Deseret News 265 times in the last decade On April 12 2011 U S Senator Tom Udall D NM led a bipartisan group of senators in introducing S 791 the Radiation Exposure Compensation Act Amendments of 2011 which would among other things expand compensation to downwinders in all counties in Idaho Montana Colorado New Mexico and to areas not now covered in Utah Nevada and Arizona Today with heightened fears about radiation leaks from damage nuclear power plants in Japan and the possibilities of nuclear terrorism the discussion of fallout induced cancers in this book provides valuable basic information about what is known about exposure to radiation and its health risks A balanced perception of the health risks of ionizing radiation is of great societal importance to issues as varied as radiological terrorism the future of nuclear power nuclear waste storage occupational radiation exposure the clean up of nuclear waste sites medical x rays whole body scanning by computed tomography results in much higher organ doses of radiation than conventional single film x rays manned space exploration and frequent flyer risks Consequential Damages of Nuclear War Barbara Rose Johnston, Holly M Barker, 2020-03-26 The hydrogen test bomb Bravo dropped on the Marshall Islands in 1954 had enormous consequences for the Rongelap people Anthropologists Barbara Rose Johnston and Holly Barker provide incontrovertible evidence of physical and financial damages to individuals and cultural and psycho social damages to the community through use of declassified government documents oral histories and ethnographic research conducted with the Marshallese community within a unique collaborative framework Their work helped produce a 1 billion award by the Nuclear Claims Tribunal and raises issues of bioethics government secrecy human rights military testing and academic activism The report reproduced here with accompanying materials should be read by everyone concerned with the effects of nuclear war and is an essential text for courses in history environmental studies bioethics human rights and related subjects **The Aftermath** Jeannie Peterson, 1983 From the John Holmes Library collection American Ground Zero Carole Gallagher, 1993 One photojournalist s decade long commitment a gripping collection of portraits and interviews of those whose lives were crossed by radioactive fallout

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