

# **Intermediate Physics Exam Activity: The Nuclear Phenomenon**

Below, the teacher constructed nuclear symbols for isotopes of the elements Hydrogen.

## **Part 1: Alpha Decay**

Start by opening the PhET module Alpha Decay. Observe that you first start by looking at the sample with 100.

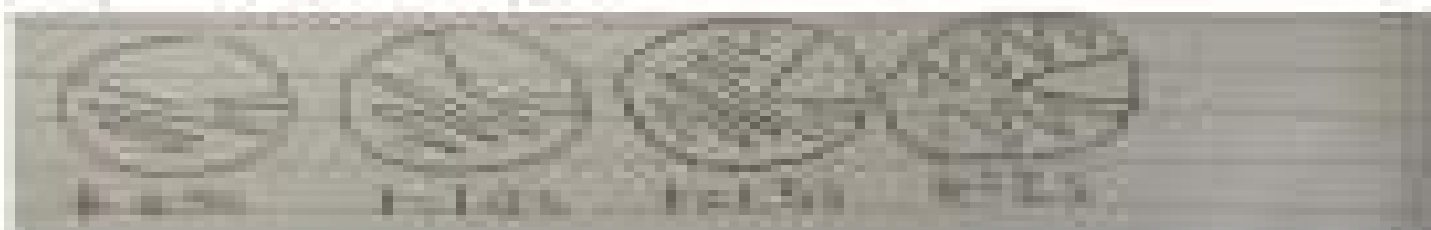
1. Observe the decay of Ph-32. Follow the steps to observe the decay of Phosphorus-32.



2. After time for half the Phosphorus has transitioned from alpha state of Phosphorus, it is no longer Phosphorus. Phosphorus is unstable and produces Helium and Aluminum. This phenomenon is nuclear decay and releases radioactive radiation.

The module allows it to approximate this rate through seconds. Referring to the PhET module, sketch a pie graph indicating the number of alpha-emitting Ph atoms in a sample starting with 100 Phosphorus.

0s 10s 20s 30s 40s 50s 60s 70s 80s 90s 100s



Next, observe the decay of 100 Ph-32 atoms by setting PhET simulation to the Alpha Phenomenon. Repeat.

Observe the pie graph after time at the three minutes.

0s 10s 20s 30s 40s 50s 60s 70s 80s 90s 100s



# Conceptual Physics Lab Activity 15c Nuclear Processes

## Answers

**Anis ben Ali Dadi**



## Conceptual Physics Lab Activity 15c Nuclear Processes Answers:

Energy Research Abstracts ,1986      **Government-wide Index to Federal Research & Development Reports**  
,1967-05      **Government Reports Announcements & Index** ,1979-03      **Energy Research Abstracts** ,1986  
**Transdex Index** ,1995 An index to translations issued by the United States Joint Publications Research Service JPRS  
The Publishers' Trade List Annual ,1974      Government-wide Index to Federal Research & Development Reports ,1967  
**U.S. Government Research & Development Reports** ,1967      *Bibliography of Scientific and Industrial Reports* ,1967  
Government Reports Annual Index ,1967      International Aerospace Abstracts ,1993      **Nuclear Processes Involving**  
**Resonant States** G. G. Calderon,1974      **Nuclear Processes in Intense Light-matter Interaction** Anis Dadi,2012  
**Nuclear Processes in Intense Light-matter Interaction** Anis ben Ali Dadi,2012      **Nuclear Fusion and Fission**  
Fiona Young-Brown,2016-07-15 Nuclear Fusion and Fission delves into nuclear physics and the scientists responsible for the  
discovery of splitting and fusing an atom The book begins with the very basic building blocks of science breaking down the  
different types of energy and how we use them the materials that make up an atom and our search for the perfect renewable  
energy source Set against the cultural backdrop of World War II later chapters follow each significant theory that led to the  
creation of the world s most dangerous weapon as well as some of its most widely used medical and food production  
processes today

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