

Intermediate Physics Exam Activity: The Nuclear Phenomenon

Notes: The teacher conducted nuclear activity for the participating intermediate classes.

Part 1: Alpha Decay

Start by opening the PhET model Alpha Decay. Observe that you first start by looking at the alpha source.

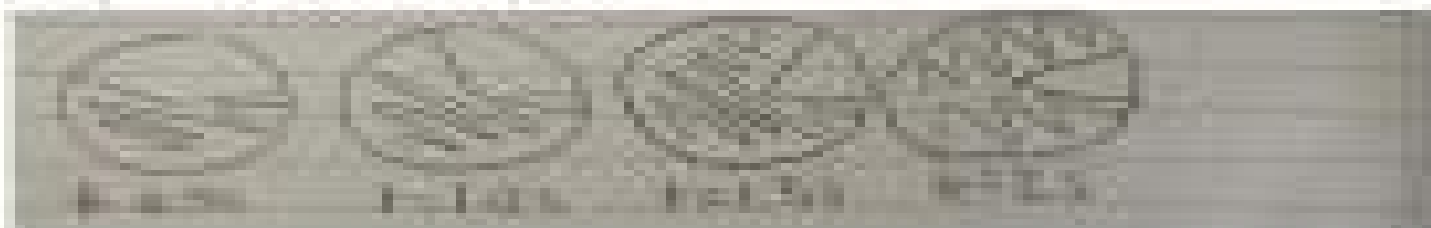
1. Observe the decay of ^{238}U . Write a nuclear equation for the decay of Uranium-238.



2. After time for backgrounding has passed, observe Alpha Decay of Uranium-238 in the decay. Characteristics of alpha decay include short penetration distance. This demonstrates the nuclear decay and release of ionizing radiation.

The model is set to be approximately 100 cm thick. Observe the PhET model. Write a pie graph indicating the number of alpha particles that are emitted during the decay.

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



Now, observe the decay of ^{238}U using the PhET model. Observe the Alpha Decay. Write:

What the probability of an alpha particle being emitted.

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



Conceptual Physics Lab Activity 15c Nuclear Processes Answers

Sebastian Brünink



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