

7.2 PhET LAB: Alpha Decay



Name: _____

OBJECTIVE: explain the alpha decay process; complete radioactive decay equations; define and analyze half-life through applying the PhET "Alpha Decay" simulation at <http://phet.colorado.edu>.

Open/Run Alpha Decay at <http://phet.colorado.edu>.

Take 5 minutes to freely explore the sim.

Investigating Alpha Decay

1. Start on the **SINGLE ATOM** tab. Observe the decay of Polonium-211. After each decay, press the RESET NUCLEUS button to watch the process again. Write a description of alpha decay for Po-211.

Complete the following alpha decay equations, using <http://www.chemicalelements.com> as a resource:



7. How is alpha decay used in everyday life? (give at least two uses)

Investigating Half-Life of Alpha Decay

8. Click the **MULTIPLE ATOMS** tab. Execute five trials to determine the number of parent and daughter nuclei at one half-life. Complete the table below.

Parent Nuclei Po-211	Parent Nuclei (remaining nuclei) [yellow]	Daughter Nuclei (decayed nuclei) [black]
100		
80		
60		
40		
20		

9. Define half-life.

Phet Beta Decay Answers

Huangqi Zhang



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