Name:

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

Open/Run Alpha Decay at <a href="http://phet.colorado.edu">http://phet.colorado.edu</a>. Take 5 minutes to freely explore the sim.

#### Investigating Alpha Decay

 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:

2. Polonium-211: 
$${}^{211}_{84}Po \rightarrow {}^{207}_{82}Pb + \_$$
\_\_\_\_

3. Radium-226: 
$${}^{226}_{88}Ra \rightarrow ---- + {}^{4}_{2}\alpha$$

4. Uranium-238: 
$$-- \rightarrow {}^{234}Th + {}^{4}\alpha$$

5. Plutonium-240: 
$$^{240}_{94}Pu \rightarrow ---_+ + ^{4}_{2}\alpha$$

6. Americium-241: 
$$^{241}_{95}Am \rightarrow ^{237}_{93}Np + -$$
\_\_\_\_

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

#### Investigating Half-Life of Alpha Decay

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 Alpha Decay Work Sheet Answers**

R. Blendowske

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