**Learning Goals:** Students will be able to:

* Describe the process of beta decay
* Differentiate between Alpha and Beta decay
* Compare the meaning of “Half-life” for Alpha and Beta decay.

**Background:** This is written to follow [Loeblein’s activity for Alpha Decay](http://phet.colorado.edu/en/contributions/view/3558). This activity could be used for homework. My students have likely heard about nuclear decay. They are high school seniors. I have written this activity to be used with a substitute teacher near the end of the school year. They have done many PhET activities throughout the year in class and as homework.

***Beta Decay*  Introduction:**

Because this sim is similar to [Alpha Decay](http://phet.colorado.edu/en/simulation/alpha-decay), I do not expect the students to have difficulty using the sim without guidance.

**Lesson:** My studentswill work in pairs in a computer lab.

**Post-Lesson:** I plan to write clicker questions, but have not done so yet.

**Follow-up sims:** Nuclear Fission (I plan to use Chasteen’s activity <http://phet.colorado.edu/en/contributions/view/3335>) , Radioactive dating (I plan to write a homework activity for next year)