

Abstract Submitted
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Half Lives for “Irradiated” Nonscience Majors KATHLEEN GEISE, PETER HALLAM, REBECCA RATTRAY, ROBERT STENCEL, TRISTAN WOLFE, University of Denver — We launched new hands-on radiation labs to supplement lecture material for undergraduate, non-science majors at the University of Denver to reinforce learning objectives during winter quarter 2014 and in order to help educate the public about nuclear energy decisions. Our learning objectives included: 1. differentiate between particle radiation and electro-magnetic radiation, 2. understand that particle radiation comes in alpha, beta and gamma types, 3. atomic and nuclear structure, 4. decay and half-life, 5. understand safe vs. unsafe doses and issues surrounding nuclear waste disposal. We used prelab surveys, prelab assessments, laboratory write-ups and quizzes to measure success with the learning objectives.

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