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## Radioactive decay transmutation worksheet answers

Course Handouts Chemistry Group sixteen - Nuclear Chemistry Classy work and homework Handouts Classy work and homework Handouts should HELP DOWNLOADING: Document File: You need a Microsoft Word program, a free Microsoft Word viewer, or a program that can import Word files in order to view this file. To learn more about the free Microsoft Word Viewer, visit the Microsoft Word website. Docx File: You need a Microsoft Word program, a Microsoft Word app, or a program that can import Word files to view that file. To learn more about the free Microsoft Word app, visit the Microsoft store. Mr. Abraham site Penfield High School 25 High School Drive Penfield, NY 14526 Radioactive elements of unstable atoms that disintegrate until they become stable. As they disintegrate, they are released by energy in the form of radiation and become different elements. The chain of radioactive decay shows the transformations that the radioactive element undergoes to become stable. This activity is intended for secondary and high school students. Goals Students will be: Learn about radioactive decay and chain decay. Watch the breakup chain. Identify the types of radiation emitted with each step in the break-up chain. NOTE: Students should be familiar with the atomic structure and concept of radioactivity before completing this activity. The information provided in Activity 2: Atomic Math and Shorthand can help implement the concepts needed to complete this activity. At the top of the page is the next generation of scientific standards Concepts in this activity can be used to support the next scientific standard: PS1. The structure and properties of the matter of the top of the page materials and resources Each multi-galleryized title document can be found at the bottom of this page, and is available for printing and distribution. The top of page Time is 45-60 minutes, not including additional activities or extensions Top of the page of Vocabulary Atom Alpha Particles Beta Particles Decay Chain Gamma Rays Half-Life Ionizing Radiation Radiation Radiation Atom Radioactive Decay Top Pages Directions Start with vocabulary activities if students are not familiar with the radiation and the terms used in this activity, or provide students with conditions and definitions. Ask students what happens when things (such as plants, food and wood) break up. Students should look at how the elements change in composition over time. Encourage students to assume whether things break up at the same rate and in the same way. Ask students to guess how radioactive atoms or materials disintegrate. Radioactive decay occurs when an unstable atom sucks out the energy (in the form of ionizing radiation) because it tries to become a stable atom and is no longer radioactive. Displaying or giving students copies of examples of the break-up chain. Browse the examples and take a look at the issues listed in the breakup chain examples: decay: The answer is key with the students. Spread the sheet of the decay chain and the periodic table of elements. If students study each break-up chain, identify the elements (or isotopes) in each break-up chain and determine whether each conversion is associated with alpha or beta particle emissions. Breaking up the chain: Teacher Answer Key provides questions and answers to consider with students. Do students share (orally or in writing): What they learned from the activity. How we could use and benefit from radioactive elements that disintegrate. We use radioactive elements for a variety of purposes. Beta-emitting elements with a short half-period are used in nuclear medicine, imaging and sensors. For example, cesium-137 is used in medical therapy for cancer and in moisture density sensors, aligning sensors and thickness sensors. Alpha-emitting elements with a longer half-seed period are used for industrial purposes. For example, Americium-241 is used in nuclear sensors, plutonium-238 is an alpha-emitting isotope that is used to generate electricity in space probes. Additional action or extensions: There are students: Chart the chain of decay for a specific radioactive element. The diagram can be simple (for example, using items with shorter chains or using part of longer decay chains) or complex, depending on the time. The diagram can be completed on paper or electronically. Plot decay chains (e.g., the use of the radon chain on a break-up chain sheet or others that students create) are on a graph with atomic numbers identified on one axis (x or y) and atomic mass on another (x or y). The top of the Concept page in the radioactive decay chain of activity are consistent with the following: CCSS Language Standards of the Arts for Literacy in History/Social Research, Science, Technical Subjects: CCSS. ELA-Literacy.SL.6-12.4 Presentation of CSSS Knowledge and Ideas. ELA-Literacy.RST.6-12.4 Craft and CSSS structure. ELA-Literacy.RST.6-12.7 Integration of knowledge and ideas of CCSS Mathematical Standards: CCSS. Math. Practice. MP1 CCSS. Math. Practice. MP2 Top of Page Printable Worksheets and Classroom Aids You may need a PDF reader to view some of the files on this page. See the EPA on the PDF page to find out more. In order to continue to use our website, we ask you to confirm your identity as a person. Thank you so much for your cooperation. A 7-page sheet for high school chemistry. A comprehensive sheet containing a variety of issues, including expansion and further research. Covers: radioisotopes; Stable and unstable cores Nuclear disintegration; Radiation Alpha and beta particles; Gamma rays; Transmutation; Predicting nuclear reaction products; half of life. Includes full version This resource is aligned with the Year 9 chemistry curriculum in Australia, but will be useful for other training programs. A full preview of this resource is available by Link: [www.goodsienceworksheets.com/nuclear-decay-and-radioactivity-worksheet.shtml](http://www.goodsienceworksheets.com/nuclear-decay-and-radioactivity-worksheet.shtml) This resource is also part of the following discount package: Atomic Structure (Worksheet Bundle) Read more Report on the problem

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