

Phet Simulation: Nuclear Fission

Go to Phet Simulations. Find and open the sim called Nuclear Fission
http://phet.colorado.edu/simulations/sims.php?sim=Nuclear_Fission

Click on 'Run Now' and select the tab that says 'Fission: One Nucleus'

Fission: One Nucleus:

Experiment with shooting the neutron gun and watch what happens.

What happens when the U-235 nucleus is "hit" with a neutron? There are a number of things that happen here, describe all of them in as much detail as you can. Use the pause button when needed. By the time that the U-235 nucleus is hit with a neutron, it automatically adds a neutron to the nucleus and it becomes U-236. The nucleus gains energy and shakes before the nucleus splits into two daughter nuclei and goes to different directions opposite from each other. In the process of splitting up, three neutrons separate from the two groups of daughter nuclei and go different ways.

Chain Reaction:

Select the "Chain Reaction" tab at the top. Experiment with changing the settings and shooting the neutron gun and watch what happens. Then answer the questions below.

- 1) Click the 'Reset All' button and then set the initial number of U-235 nuclei to 100 and U-238 to 0. What happens when you fire the neutron gun?

When the neutron gun was fired, the very first nucleus that was hit by the neutron immediately split into two, similar to the one nucleus test, three neutrons separated themselves from the group and started the chain reaction by hitting the other nucleus.

- 2) Explain what makes this a "chain reaction".

This is a chain reaction because the events happened one after another. When the first neutron hit the nucleus, it created a reaction that released three more neutrons from the nucleus, this three neutrons hit other nucleus to repeat the cycle until there are no more nucleus left.

- 3) Click 'Reset' and then set the initial number of U-238 nuclei to 100 and U-235 to 0. Explain what happens when you fire the gun. Does this cause a chain reaction? Try multiple times to start a chain reaction with the U-238. Explain why this happens.

Hitting U-238 with a neutron does not cause any chain reactions. It is because U-238 is not fissionable unlike U-235 which is fissionable and causes chain reactions. There is also no neutrons released to start a chain reaction.

What is U-238? In what ways is it different from U-235?

U-238 is an isotope of uranium. It has one more neutron in the nucleus than U-235.

- 4) Set the initial numbers of U-235 nuclei and U-238 nuclei to the numbers in the table below. Record your results.

U-235 U-238	100 0	75 25	50 50	25 75	0 100
% of 1% neutrons after 1 firing & neutrons required to sustain all 1%	99%	97.14%	64%	6.67%	0
	2	3	11	34	N/A

Phet Nuclear Fission Answer Key

John M. Novak



Phet Nuclear Fission Answer Key:

Nuclear Fission and Chain Reaction Pedro R. FlorCruz,1950 **Selected Papers on Nuclear Reactions.** ,1984

The Nuclear Fission Process Cyriel Wagemans,1991-09-20 This text provides a comprehensive review of knowledge regarding nuclear fission from both the purely scientific and practical points of view Topics discussed include fission barriers spontaneous fission neutron induced fission cross sections photon and electron induced fission charged particle induced fission fragment angular momentum and ternary fission The characteristics of other reaction products are also discussed Contributed articles from several distinguished nuclear scientists guarantee adequate treatment of some of the specialized research fields included in the text Intended primarily as an introduction to nuclear fission for graduate students this book will also provide useful information for nuclear physicists involved with research or teaching **Nuclear Fission** Robert Vandenbosch,2012-12-02 Nuclear Fission provides a comprehensive account of nuclear fission This book is organized into 14 chapters Chapter I introduces and discusses the discovery of fission followed by a treatment of transition nucleus in Chapters II to VIII Chapter IX deals with the theories of mass and energy distributions The kinetic energy release in fission is described in Chapter X while the distribution of mass and charge in fission is considered in Chapter XI Chapters XII and XIII consider the emission of neutrons and rays from fission Detailed studies of the particles accompanying fission are covered in the last chapter This volume is intended for students but is also valuable to research scientists interested in the physics and chemistry of fission *Nuclear Fission* Patrick Talou,Ramona Vogt,2023 This book provides advanced students and postdocs as well as current practitioners of any field of nuclear physics involving fission an understanding of the nuclear fission process Key topics covered are fission cross sections fission fragment yields neutron and gamma emission from fission and key nuclear technologies and applications where fission plays an important role It addresses both fundamental aspects of the fission process and fission based technologies including combining quantitative and microscopic modeling Nuclear Fission ,1984 **Advanced Nuclear Fission Theory** ,2001 *Theme Issue on Nuclear Fission* ,1989 *Nuclear Fission* John M. Novak,1963 **Notes on Nuclear Fission** Massachusetts Institute of Technology,Milton Stanley Livingston,1946 Nuclear Fission. Huizenga John Robert Huizenga,Robert Vandenbosch,1973 Nuclear Fission UKAEA, Risley (GB). Northern Div,1989 *Critical Review of the Energy Released in Nuclear Fission* ,1971 The Mean Field Description of Nuclear Fission J. Okolowicz, **Theory of Nuclear Fission** Li-Chi Pwu,University of Manchester. Department of Physics,1973 **The Discovery of Nuclear Fission** Günter Herrmann,1995 **Theories of Nuclear Fission** Robert Brock Le Page,1964 Dynamical Aspects of Nuclear Fission ,1993 *Physics of Nuclear Fission* ,1958 Clean Fission Richard A. Weiss,1992

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astrology, so here's a simple team building activity you can use when ... Ideas for group/team building activities using MBTI

Hi all,. I want to introduce my group of friends to the MBTI and they have all agreed to participate in some sort of activity altogether. MBTI Team Development Activities Feb 24, 2023 — 36 HR Training & Consultancy uses a variety of fun team building and team development learning activities as well as interesting games to help ... Free type exercises for practitioners - Myers-Briggs Apr 10, 2015 — A wide range of exercises for use in MBTI® based training sessions. These resources equip MBTI practitioners with group-based activities that ... Team Building Activities | CPP ... (MBTI) assessment and conduct a team building workshop around their assessment results. ... Specific reports such as the MBTI® Comparison Report: Work Styles ... MBTI Team Development Activity Jul 29, 2020 — MBTI team development activity to try in your virtual workshops. Designed to help groups increase self-awareness. Team building activities with MBTI types - marc-prager.co.uk Scavenger hunts: In this team building activity, participants work in teams to find and collect items or complete tasks on a list. This exercise will encourage ... SEAT Altea (2005-2015) fuses Fuse box diagram (location and assignment of electrical fuses) for SEAT Altea (2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015). Seat Altea 2008 Fuse Box The fuse box is located under the instrument panel behind the cover on the driver's side. Engine compartment fuse box location: Fuse Box Diagram | Layout. Seat Altea XL fuse box diagrams for all years Explore interactive fuse box and relay diagrams for the Seat Altea XL. Fuse boxes change across years, pick the year of your vehicle: Is ... Seat Altea (2005) - fuse box diagram Mar 8, 2018 — Seat Altea (2005) - fuse box diagram · Fuses box on the left side of dash panel · Location under steering wheel, on relay carrier · Fuses layout in ... Seat Altea 2010 Fuse Box The fuse box is located under the instrument panel behind the cover on the driver's side. Engine compartment fuse box location: Fuse Box Diagram | Layout. SEAT Fuse & Relay Diagram. PDF Download - Volkswagen Here you will find SEAT fuse box diagrams, Relay and Fitting locations: SEAT Arona, Ateca, Alhambra, Ibiza / Cordoba, Toledo / Altea, Leon, Arosa, Inka, ...