

Concept Review

Section: Families of Elements

1. **Classify** each of the following elements as an alkali metal, alkaline-earth metal, transition metal, or semiconductor based on its position in the periodic table.

_____ **a.** rubidium, Rb

_____ **b.** silicon, Si

_____ **c.** silver, Ag

_____ **d.** barium, Ba

2. **Classify** each of the following elements as a halogen, noble gas, or other nonmetal based on its position in the periodic table.

_____ **a.** carbon, C

_____ **b.** chlorine, Cl

_____ **c.** radon, Rn

_____ **d.** phosphorus, P

3. **Predict** which of the following ions would be likely to form:

_____ **a.** Na^{2+}

_____ **d.** Br^-

_____ **b.** Cl^+

_____ **e.** Ne^-

_____ **c.** Ca^{2+}

_____ **f.** Ne^+

4. **Explain** why chlorine, Cl, is very reactive, whereas argon, Ar, is unreactive.

5. **Analyze** the following pairs of elements, and determine whether each pair has similar or different reactivities.

_____ **a.** potassium, K, and rubidium, Rb

_____ **b.** calcium, Ca, and barium, Ba

_____ **c.** sodium, Na, and chlorine, Cl

_____ **d.** helium, He, and krypton, Kr

Physical Science Fission And Fusion Worksheet

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processes associated with nuclear fusion Then the authors undertake an analysis of magnetically confined inertially confined and low temperature fusion energy concepts Subsequently they introduce the important blanket domains surrounding the fusion core and discuss synergetic fusion fission systems Finally they consider selected conceptual and technological subjects germane to the continuing development of fusion energy systems *Cold Nuclear Fusion* Florian Ion Petrescu, 2012-07-01

Nuclear fusion is the process by which two or more atomic nuclei join together or fuse to form a single heavier nucleus During this process matter is not conserved because some of the mass of the fusing nuclei is converted to energy which is released The binding energy of the resulting nucleus is greater than the binding energy of each of the nuclei that fused to produce it Fusion is the process that powers active stars Creating the required conditions for fusion on Earth is very difficult to the point that it has not been accomplished at any scale for protium the common light isotope of hydrogen that undergoes natural fusion in stars In nuclear weapons some of the energy released by an atomic bomb fission bomb is used for compressing and heating a fusion fuel containing heavier isotopes of hydrogen and also sometimes lithium to the point of ignition At this point the energy released in the fusion reactions is enough to briefly maintain the reaction Fusion based nuclear power experiments attempt to create similar conditions using far lesser means although to date these experiments have failed to maintain conditions needed for ignition long enough for fusion to be a viable commercial power source There are many experiments examining the possibility of fusion power for electrical generation Nuclear fusion has great potential as a sustainable energy source This is due to the abundance of hydrogen on the planet and the inert nature of helium the nucleus which would result from the nuclear fusion of hydrogen atoms Unfortunately a controlled nuclear fusion reaction has not yet been achieved due to the temperatures required to sustain one In hot fusion it need a temperature of 4000 million degrees Without a minimum of 3000 million degrees we can't make the hot fusion reaction to obtain the nuclear power Today we have just 150 million degrees made To replace the lack of necessary temperature it uses various tricks Because obtaining the necessary huge temperature for hot fusion is still difficult it is time to focus us on cold nuclear fusion We need to bomb the fuel with accelerated deuterium nuclei The fuel will be made from heavy water and lithium The optimal proportion of lithium will be tested It would be preferable to keep fuel in the plasma state Research into developing controlled thermonuclear fusion for civil purposes also began in earnest in the 1950s and it continues to this day Two projects the National Ignition Facility and ITER are in the process of reaching breakeven after 60 years of design improvements developed from previous experiments The best results were obtained with the Tokamak type installations **The Fusion Quest** T. Kenneth Fowler, 1997 To help answer this question Fowler explains the physical principles on which fusion is based describes the experiments that have led to the present state of the art and shows how all these considerations would affect the design of possible fusion based nuclear power plants **Nuclear Fission and Fusion in a Random-walk Model** Martin Albertsson, 2021 *Nuclear Physics for Morons in Slides* R. E. D. Dot PUBLICATIONS, 2017-08-15 Basic

understanding of nuclear physics in slides Very instructive and easy to understand for the beginner
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