

Name: \_\_\_\_\_

### Nuclear Chemistry (Fusion, Fission, Half-life, Radioactive Decay) - Worksheet

Q.1. What is the name of the process of emitting energy and subatomic particles spontaneously by unstable nuclei?

- a) Metastability
- b) Conductivity
- c) Half-life
- d) Radioactivity

Q.2. Most nuclear fission reactions are initiated by bombarding nuclei with \_\_\_\_\_

- a) electrons
- b) protons
- c) neutrons
- d) positrons

Q.3. Identify the following as either nuclear fusion or nuclear fission.

	
<p>- The combining of two or more small nuclei to form a larger nucleus.</p> <p><input type="text"/></p>	<p>- The splitting of a large nucleus into smaller pieces.</p> <p><input type="text"/></p>

Q.4. Which kind of nuclear reaction is used in power plants to generate electrical energy?

- a) Nuclear Fusion
- b) Nuclear Fission
- c) Combination reaction
- d) Decomposition reaction

Q.5. Which process produces energy in stars, such as our Sun?

- a) Nuclear Fusion
- b) Nuclear Fission
- c) Combination reaction
- d) Decomposition reaction

Q.6. Write T or True if the statement is true, write F or False if the statement is false.

- \_\_\_\_\_ 1. Nuclear reactions don't affect the nucleus of an atom.
- \_\_\_\_\_ 2. The rate of radioactive decay of a specific radioactive isotope depends on external factors such as temperature and pressure.
- \_\_\_\_\_ 3. Nuclear fusion generally releases more energy than nuclear fission.
- \_\_\_\_\_ 4. In nuclear reactions, atomic number and mass number are balanced instead of atoms.

# Fission Fussion Worksheet Key Answers

**Ronald Mackay**



## **Fission Fusion Worksheet Key Answers:**

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**Fission, Fusion and the Energy Crisis** Stanley E. Hunt, 1976      *Fission, Fusion and the Energy Crisis* Stanley Ernest Hunt, 1974      **Energy From The Nucleus: The Science And Engineering Of Fission And Fusion** Gerard M Crawley, 2016-08-11 Nuclear energy is important both as a very large energy resource and as a source of carbon free energy However incidents such as the Fukushima Daiichi nuclear disaster 2011 the Chernobyl disaster 1986 and the Three Mile Island accident 1979 have cast doubts on the future of nuclear fission as a major player in the future energy mix This volume provides an excellent overview of the current situation regarding nuclear fission as well as a description of the enormous potential advantages offered by nuclear fusion including an essentially unlimited fuel supply with minimal environmental impact *Energy from the Nucleus* focuses on the two main approaches to producing energy from the nucleus fission and fusion The chapters on nuclear fission cover the status of current and future generations of reactors as well as new safety requirements and the environmental impact of electricity production from nuclear fission The chapters on nuclear fusion

discuss both inertial confinement fusion and magnetic confinement fusion including the new international fusion test facility ITER The expertise of the authors who are active participants in the respective technologies ensures that the information provided is both reliable and current Their views will no doubt enlighten our understanding of the future of energy from the nucleus

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

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**Fusion for Neutrons and Subcritical Nuclear Fission: Proceedings of the International Conference** International Workshop on Fusion Neutrons and Subcritical Nuclear Fission,2012 **An Optimization of the Fission-fusion Hybrid Concept** M. J. Saltmarsh,Warren R. Grimes,R. T. Santoro,1979 Fission and Fusion Lifelique,2019 This lesson plan covers nuclear fission and nuclear fusion *A Systems Approach to Fission-fusion Symbiosis* Charles William Gordon,1975

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