

Nuclear Chemistry



Name Class Date High energy is a requirement for fusion A radioactive isotope used in the study reactions to occur because the nuclei involved of many organic reaction mechanisms is attract each other because they A carbon-12 have like charges B carbon-14 attract each other because they have unlike charges oxygen-16 repel each other because they oxygen-18 have like charges D repel each other because they have unlike charges Which substance is a gaseous radioactive 3 Which type of radiation has waste product that is released into the zero mass and zero charge? atmosphere after it has decayed to a safe 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 spectral lines? A a moderator A neutron absorption by the nucleus B an accelerator B gamma ray emission from the nucleus C a fuel rod c movement of electrons to higher **D** shielding energy levels return of electrons to lower energy levels 9 particle accelerator is used to Which statement explains why fusio reactions are difficult to initiate? charged particles with sufficient A Positive nuclei attract each other. A kinetic energy to penetrate a nucleus B kinetic energy to penetrate an electron B Positive nuclei repel each other. cloud C Neutrons prevent nuclei from getting close enough to fuse. C potential energy to penetrate a nucleus **D** Electrons prevent nuclei from getting D potential energy to penetrate an close enough to fuse. electron cloud



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