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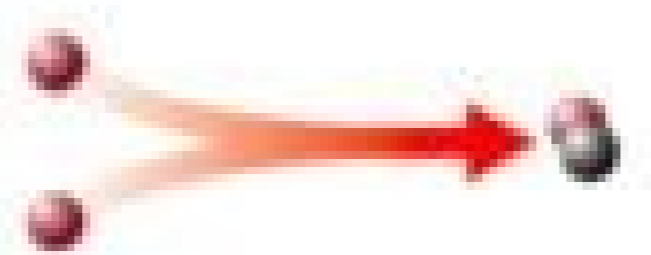
Name \_\_\_\_\_ Period \_\_\_\_\_

# Nuclear Chemistry – Review Worksheet

Instructions: Identify the diagrams as Fission, Fusion, Alpha Decay, Beta Decay, or Gamma Decay.



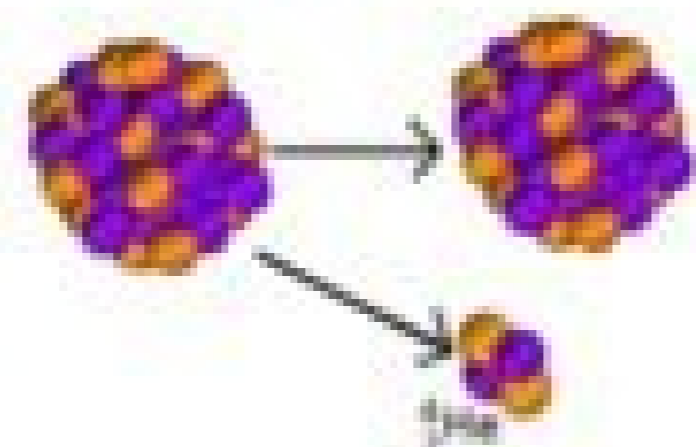
1) Fission



2) Fusion



3) Gamma Decay



4) Alpha Decay



5) Beta Decay

Identify the following as alpha, beta, or gamma particles and WRITE THE SYMBOL!

6) Identical to an electron  
Beta  $\beta$

7) Identical to helium  
Alpha  $\alpha$

8) Ray of energy with no mass  
Gamma  $\gamma$

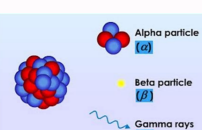
48) In a nuclear power plant, where does the heat first come from?  
The heat inside a nuclear powerplant is generated through the process of nuclear fission which is occurring in the reactor.

49) On the sun, explain how heat and energy is generated?  
Heat on the sun (and other stars) is generated through a constant series of nuclear fusion reactions occurring.

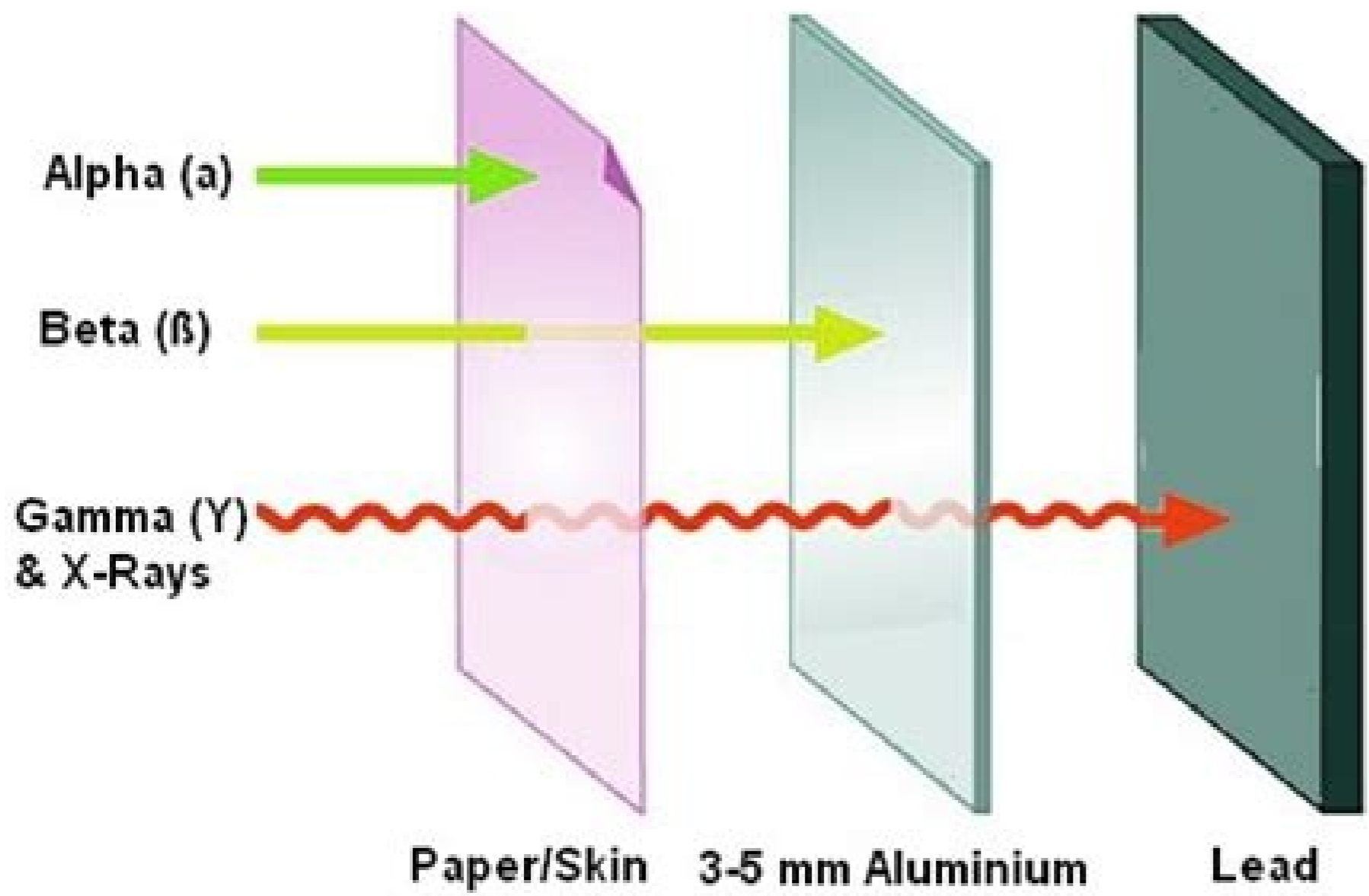
50) What are some positive aspects of using nuclear energy?  
Nuclear energy produces almost no air pollution, and a single nuclear plant can generate enough energy to power large areas.

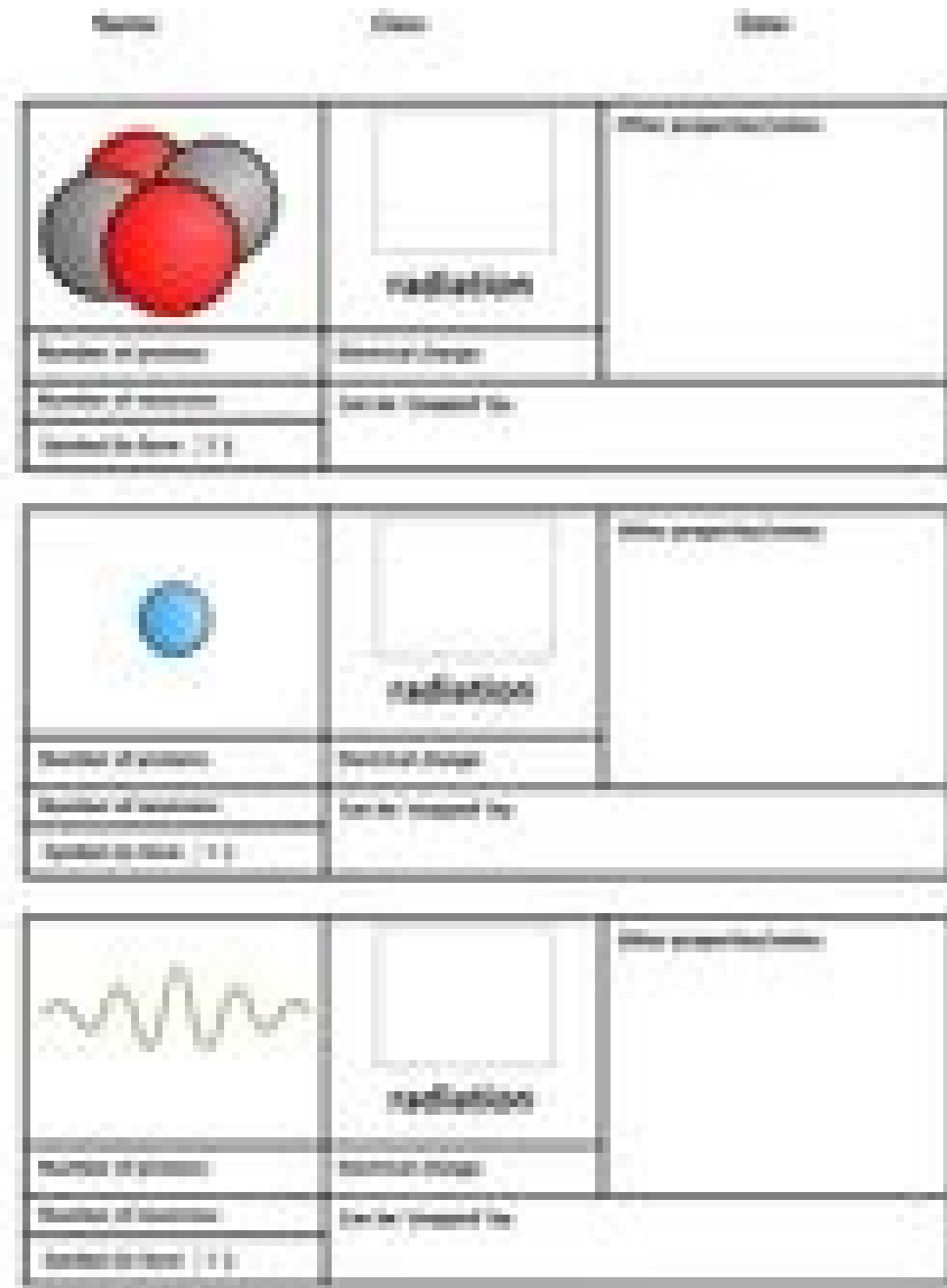
51) What are some negative aspects of using nuclear energy?  
Nuclear powerplants can experience dangerous meltdowns. They also produce radioactive waste that is difficult to dispose of.

Instructions: Fill in ALL OF THE BLANKS in the following decay chain. This includes blank spaces where "alpha decay" or "beta decay" are occurring, as well as the boxes that contain an isotope.



## Basic Radiation Types & Penetrating Power





In this beta decomposition, a thorium-234 nucleus has become a nucleus of protactinium-234. The process of nuclear disintegration that emits alpha particles is called alpha disintegration. Most of the resources say that beta particles can be stopped with an aluminum sheet of a quarter of thickness. In addition, keep in mind that, as was an alpha reaction, one of the products is the alpha particle,  $(\text{He}^{2+})$ . The electron is expelled from the nucleus and is the radiating particle called beta. Where does it take out an alpha particle's symbol? In the alpha decay of  $(\text{U})^{238}$ , two gamma rays of different energy are emitted in addition to the alpha particle. The disintegration series  $(\text{U})^{238}$  begins with  $(\text{U})^{238}$  and passes by fourteen independent disintegrations to finally reach a stable nucleus,  $(\text{Pb})^{206}$  (Figure 17.3.3). In most cases, radiation will cause a single (or a very small number) of cells by breaking the cell wall or preventing it otherwise that a cell is reproduced. Nuclear reactions produce much more energy than chemical reactions. The radium that is now present is present because it was formed in a series of decomposition (mostly by U-238). Beta particles are much more small than alpha particles and, therefore, have much less ionizing power (less ability to damage the tissue), but their small size gives them a power of Penetration much greater. When the nuclear reactions are studied in general, there is usually little information or concern about the chemical state of radioactive isotopes, because electrons are not directly involved in nuclear reaction (in contrast to chemical reactions). Gamma rays can go through the whole human body without hitting anything. The capacity of each type of radiation to pass through ed edicapaci nare otneleme nu ed somotj sol ot nup etse atsah souditese sortseun ne .oelcAn le edsed etime es euq aAgrene atla ed nArtele nu etnemelmpis se ateb alucAtrap anU .nAicartene ed redop ed sonimrAt ne aserpxe es airetam eb ot dah rebmun ssam a dna rebmun cimota na, ytreporp pu dda srebmun eht evah dna noitaque raelcun a otini nortcele na tresni ot .snortuen on dna snortop on sniatnoc nortcele na dna, snortuen sulp snortop fo rebmun eht si rebmun ssam eht ecnis elbanosae si hcihw ) 0 (orez si nortcele na ot dengissa rebmun ssam eht .septosi elbatsnu dna elbats htoeb evah snortop 48 naht ssel htw stnemele dna, evitcaoidar era snortop erom ro 48 htw ielcun IA, suelcun lanigiro eht naht notorp erom eno sah suelcun 432- MUIROHT A, YACED ATEB SIHT NI .EMAS EHT SNIAMER SNOITUEN SUP SNOTORP FO MUS EHT OS DNA, DENIAG NEEB SAH NOTORP A TUB, TSOL NEEB SAH NORTUEN A ESUACB EMAS EHT ERA SUELCLUN WEN EHT DNA SULCUN LANIGIRO EHT FO SREBMIN SSAM EHT) 19 + 1 = 09 (\ REBMUN CIMOTA ) 432 + 0 = 432 (\ REBMUN SSAM ) ) Zateb (fer (\ noitaque (432-Muiroht fo SREBMIN SSAM EHT HTOB TAHT ETON .ELBAT CIDOIREP EHT NO SNOTORP 48 HTIW TNEMELE EHT SI SIHT ESUACB, MUIN OLOP ROF) ) op (EC LOBMYS EHT WONK EW .ELCITRAP GNISSIM EHT NI GNILLIF YB NOITCAER RAELCUN GNIWOLLOF EHT ETELPMOOC ) 1 (XEDNIEGAP (\ ELPMAXE) yaced evitcaoidar eht fo eno ni decudorp era yeht esuaceb ereht tneserp era erutan n dnuof era taht ielcun evitcaoidar eht fo lareves) akasoT 0.3-YB-CC (.nortcele na dna notorp a otini gnittilps nortuen a sa yaced ateb taert lliw ew, ecineinevoc roF .NWOHS TON YTLARENEG ERA SYAR AMMAG EHT YTCILPMIS ROF TUB, SYAR AMMAG TIME OSLA RETPAHC SIHT NI SNOITCAER RAELCUN EHT FO LLA YLLAUTRIV) ) ammag \ 0 } 432 { } \ + ) eH4 ^ 2 { e \ worrathgir \ } u } 832 { {Th} } (TUB, YTCILPMIS ROF TNEINEVNOC EB DLUOW TAHT .YACED AHPLA NA SI NOITCAER SIHT NOITULOS \ + ) eH4 ^ 2 { e \ worrathgir \ } nr } 012 { ^ { \ } \ .stnemele tnereffid otini to an electron. Alpha particles always have this same composition: two protons and two neutrons. Another producer of alpha particles is the thorium-230. That means that the alpha particle has two protons that were lost by the uranium atom. The most safer radiation amount for the human body is zero. a) Carbon-14, used in carbon dating, decomposes by beta emission. It means that nuclear changes involve almost a million times more energy by atom than chemical changes! Practically note all nuclear reactions of this chapter also emit gamma rays, but by simplicity gamma rays are generally not shown. The atomic number in the process has increased by one since the new nucleus has a proton more than the original nucleus. The two most common modes of natural radioactivity are alpha decomposition and beta disintegration. When writing nuclear equations, there are some general rules that will help you: the sum of the mass numbers (higher numbers) on the side of the reagent is equivalent to the sum of the dough numbers on the side of the product. Another common process of disintegration is the emission of beta particles, or beta disintegration. What is such a wall that you need to hide to be safe? For example, there may have been radion on Earth at the time of its training, but that original radion would have deteriorated for this moment. It is considered that they have the lowest ionizing power and the highest penetration power. Alpha particles have the lower power of penetration and can be stopped by means of a thick sheet of paper or even a layer of clothing. Observe the symbol of the alpha particle:  $(\text{He}^{2+})$ . Many nuisance are radioactive; That is, they decompose emitting particles and in doing so, they become a different nucleus. The atomic numbers (lower numbers) on both sides of the reaction be equal. The ability of radiation  $\gamma$  to give molecules is analyzed in terms of what is called ionizing power. Series  $(\text{U})^{235}$  ends with  $(\text{Pb})^{207}$  and  $(\text{Th})^{232}$  ends with  $(\text{Pb})^{208}$ . In general, the higher the present mass, the higher the ionizing power and the lower the penetration power? Solution? a) Beta parts have the  $(\text{e}^{-1})$  symbol. We are left with:  $(\text{U}^{92})^{238} \rightarrow (\text{U}^{92})^{238} + (\text{e}^{-1})^{0}$  The disintegration  $\beta$  a radioactive core is a step towards stabilization  $\beta$ . The same goes for the  $\beta$  numbers. An example of a nucleus undergoing alpha decay is uranium-238. Later, alpha parts were identified as helium-4 nuclei, beta parts as electrons, and gamma rays as a form of electromagnetic radiation  $\gamma$  such as X-rays, except that they are much higher in energy and more dangerous to living systems. With all the radiation  $\beta$  natural and artificial sources, we should be reasonably concerned about how  $\beta$  all the radiation  $\beta$  not affect our health. Protactinium-234 is also a beta emitter and produces uranium-234. All these elements can go through nuclear changes and become different elements. In natural radioactive decomposition  $\beta$  three common emissions occur. The top number, 4, is the mass number or the total of protons and neutrons in the part. Most of the nuclear reactions emit energy in the form of gamma rays. These interactions can alter the structure and function  $\beta$  molecular; molecules no longer perform their proper function  $\beta$  and molecules, like DNA, no longer carry the right information? Issuing an alpha part causes the  $\beta$  number to decrease by 2 and the mass number to decrease by 4. The day to living systems is done by radioactive emissions when the parts or rays strike tissue, cells or moles and alter them. The  $\beta$  numbers and mass numbers in a nuclear equation  $\beta$  be balanced. Much of the radiation threat is  $\beta$  related to the ease or difficulty of protecting yourself from The deterioration of  $(\text{U})^{238}$  is an example of this. Solution  $\beta$  2. Remember that massive numbers anU .))eH4 ^ 2 { ec(\ olombAs le neneit afa salucAtrap sal, jB )N}41{ ^ 7 { ec( + j eU ^ -1 { ec( worrathgir )C}41{ ^ 6 { ec(\ .nAicaeer etneugis al adeup soN .elbatse oelcAn nu emrof es euq atsah senoiarcpetnised ed eires anu [Ar]udorp es .sosac selat ne .elbisp daditnac ronem al a oteupxe ratse se ovitjebp rojem etneugis le euq ol rop .etazinoi nAicaidar al etnemelmpoc rative elbisopmi e .nAicetorp anugin seneit on .it ed ortned [Atse afa rosime le euq zev anu y auga o adimoc noc sodibrosba o sodalahni res nedcup serosime sol .etneibma le rop necrapse es sovitaoidar serosime sol ednod .raelcun etnedica ed opit nAqla o raelcun nAisolpxe anu nE .senotorp ed oremAn le se raelcun olombAs nu ne roirefni oremAn IE .afa alucAtrap anu AAreng .osecorp le ne .y )thgir' }hT}432{ ^ 09{ {ec( (fel(\ oirot ed omotjAn nu ne Aatumsnart es )thgir' )U}832{ ^ 29{ {ec( (fel(\ oinaru ed omotjAn le .raelcun oibmac etse nE ) }lahpla( lebal )hT}432{ ^ 09{ {ec( + )eH4 ^ 2 { ec( worrathgir' )U}832{ ^ 29{ {ec( se 832- )U( ec(\ ed afa oroireted IE .832-oinarU ed nAicargetnised ed anedaC :3.3.71 arugiF .xoder senoiarcpae sal rarbiliuqe la Aitucsid es omoc .agrac al a otecpser noc sadarbiliuqe niAtse on seroiretna seraelcun senoiarcpae sAmed sal ed aAroyam al y ))2ateb(fer(\ , ))1ahpla(fer(\ senoiarcpae sal ne seraelcun senoiarcpae sal orep .sagrac niAtse ateb sal omoc afa salucAtrap sal otnaT .))2+(\ ed agrac anu neneit nAibmat senotorp sod sol .se osorgilep sAm y nAicartene ed redop le se royam .nAicaidar al rasap edeup lairetam sAm otmauC .odnaibmac nabatse senortcele sol olos .soditucsid solbmac ed sopit sorto sol sodot ne euqrop se osE .onu ne omotjAn led ocimA oremAn le odnatnemua .oelcAn le ne ecenamrep nAitorp IE .sanrexe setneuf ed olos se orep .afa salucAtrap sal ed azanema al ranimile recorap edeup oteE .sanorep sal ne atreum ierip ed roiretpe apac al rop neneited es nAibmat .diaditnac amsim al atsah ramus ebese odal adae Nuclear is one that changes the structure of the nucleus of an atom. There are similar degradation series for  $(\text{U})^{235}$   $(\text{U})^{235}$   $(\text{Th})^{232}$ . Due to the large mass of the alpha part, it has the highest ionizing power and the greatest ability to give the tissue. The two best ways to minimize exposure are  $\beta$  to limit exposure time  $\beta$  increase source distance. Nuclear reactions release some of the binding energy and can convert small amounts of matter into energy. The nuclei do not contain electrons, and yet, during beta decay, an electron  $\beta$  is emitted from a nucleus. Mass numbers:  $(210 = 4 + ?)$  Number  $\beta$ :  $(86 = 2 + ?)$  We are left with  $(\text{U}^{84})^{206}$  PO) ). Often, a radioactive core cannot reach a stable state through a single decomposition  $\beta$ . (b) Uranium-238 decays  $\beta$  alpha. Here is the  $\beta$  equation of this beta decay:  $(\text{U}^{90})^{234} \rightarrow (\text{Th}^{90})^{234} + (\text{He}^{2+})^{4}$  )  $(\text{U}^{91})^{234}$  PA) \ LA TEL {BETA2} \ Frequently, Gamma Ray  $\beta$  n production accompanies nuclear reactions of all types. Gamma rays are not parts, but a high form of electromagnetic radiation  $\beta$  (like X-rays, except more powerful). Issuing a beta part causes the  $\beta$  number to increase by 1 and the mass number not to change. Comparing only the three common types of ionizing radiation  $\beta$  alpha particles have the highest mass. We obtain  $\beta$  numbers and numbers for the elements using our peri  $\beta$  dica table.  $(\text{U}^{91})^{234}$  PA) \ Rudotrow  $(\text{U}^{91})^{234}$  PA) \ Rudotrow  $(\text{U}^{91})^{234}$  PA) \ tag {nuke1} ) once again, the  $\beta$  number increases by one and the mass number remains the same: This confirms that the equation  $\beta$  not properly balanced. What about the balancing charge? Gamma rays have tremendous penetration power  $\beta$  require several inches of dense material (such as lead) to protect them. Gamma rays are energy that It has dough or load. When these emissions were originally observed, scientists could not identify them as some particles already known and calls: These particles were named using the first three letters of the Greek alphabet. At the same time that Electron is being expelled from the nucleus, a neutron is becoming a proton. In the alpha decay of  $(\text{U}^{238})^{238}$  (equation  $(\text{U}^{91})^{234}$  ), the atomic and mass numbers are preserved: mass number:  $(238 = 4 + 234)$  Atomic number:  $(92 = 2 + 90)$  Confirm that this equation is correctly balanced by adding the atomic and mass numbers of the reagents and products. Thus, it is acceptable to ignore the burden when balancing nuclear reactions, and concentrating only on balancing the mass and atomic numbers. Once again, however, the greatest danger occurs when the beta emitting source gets inside you. It is tempting to imagine this as a neutron breaking into two pieces with the pieces being a proton and an electron. They collide with molts very quickly when they hit the matter, add two electrons and become a harmless helium atom. The greater the probability of a damage to an interaction, the greater the ionizing power of the radiation. Therefore, the nuclear symbol representing an electron (beta particle) is  $(\text{e}^{-1})$  or  $(\text{U}^{91})^{234}$  is a nucleus that suffers beta disintegration. The energy released in a nuclear reaction has an order of magnitude of  $(1 \times 10^{18})$   $(\text{kJ/mol})$ . The atomic number assigned to an electron is negative (-1), because that allows a nuclear equation that contains an electron balance the atomic numbers. Because it has two protons, and a total of four protons and neutrons, alpha particles should also have two neutrons. In these changes, the nucleus, which contains the protons that dictate what element is an atom, is changing.  $(\text{U}^{90})^{234}$

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