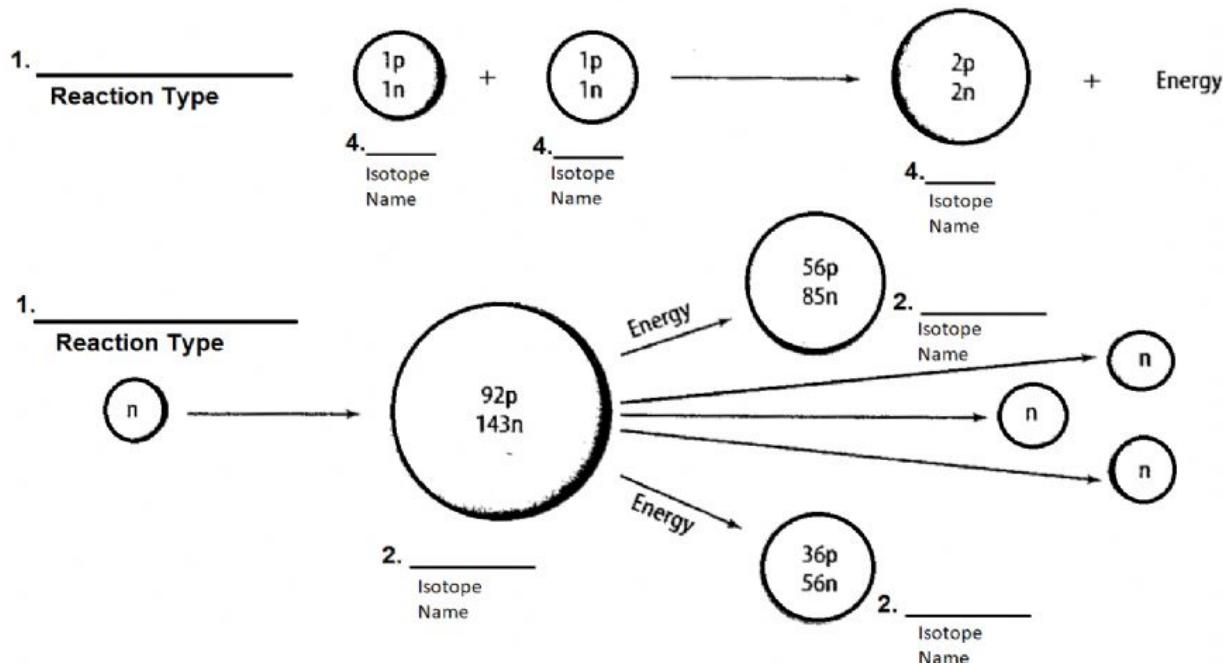


Nuclear Reactions

For each element in the two reactions below, indicate the isotope name in the format, element symbol - mass.
Ex: If the element in the reaction was carbon-14 you would answer C-14.



1. Select the letter of the equation that correctly explains the nuclear reaction shown in the top diagram.
 - a. H-2 + H-2 → H-4
 - b. H-2 + H-2 → He-4
 - c. H-1 + H-1 → H-2
 - d. H-1 + H-1 → He-2

2. Select the letter of the equation that correctly explains the nuclear reaction shown in the bottom diagram.
 - a. 1 neutron + U-235 → Ba-141 + Kr-92 + 3 neutrons + energy
 - b. 1 neutron + U-238 → Ba-141 + Kr-92 + 4 neutrons
 - c. Ba-141 + Kr-92 → U-235 + 3 neutrons
 - d. Ba-141 + Kr-92 → U-238