Beta (β) Decay occurs when an unstable nucleus emits a(n)
A beta particle can be represented by
Beta decay can be represented by the following reaction:
In terms of the size of radioactive particles, beta particles are than alpha particles.
It is the not as damaging to biological cells and so has a ionizing power.
penetrating power and can only be stopped by a sheet of metal or a large block of wood
EXAMPLE: Write balanced nuclear equations for each of the following beta emissions.
a) Magnesium (Mg) – 25
b) Ruthenium (Ru) – 102
EXAMPLE: Pb – 208 is formed from Th -232. How many alpha and beta decays have occurred?
a. 6, 2
b. 6, 6
c. 6, 4
d. 4, 6
e. 8, 2

CONCEPT: BETA DECAY