Nuclear Equations Write nuclear equations that describe the following processes: ²³¹₉₁Pa decays by alpha emission to Ac. ²²²₈₇ Fr decays by beta emission to Ra. ²²¹ Fr decays by alpha emission to At and emits a gamma ray.

¹³³Xe decays by beta emission to Cs and emits two gamma rays.

²¹⁰At decays by alpha emission to Bi.

More Nuclear Equations – Periodic Table Needed

1. Uranium-235 undergoes an alpha decay to produce thorium-231.
2. Lanthanum -144 becomes cerium-144 when it undergoes a beta decay.
3. Neptunium-233 is formed when americium-237 undergoes a nuclear decay process.
4. When protactinium-229 undergoes alpha decay, an isotope of actinium is formed.
5. Uranium-238 undergoes an alpha decay, producing a thorium isotope and two gamma rays.
6. (Ext) Neon-22 is formed when an element undergoes beta decay.
7. (Ext) Samarium-146 is produced when an element undergoes an alpha decay.
8. (Ext) The beta decay of dysprosium-165 creates a new element.