



**Instructor:** Rosalind M. Esemplare

**School District:** Sayerville

**Lesson Title:** The Half-Life Relatives of Uranium & What Caused The Decay of This Radioactive Family.

**Overview:**

Format of a talk show. Host introduces Uranium & it explains what happened when it emitted an alpha particle. It turned into Thorium. Thorium explains it emitted a beta particle & which became protactinium & so on until you end up with lead.

It will be an interactive situation. The elements will only say their atomic mass, atomic number and symbol. The audience will have to use their periodic tables to name the element. They will raise their hands & host will call on someone for the answer.

**Objectives:**

1. Students will be able to define half-life & radioactive decay.
2. Students will develop a better understanding of what happens during decay using uranium-238 as a model.
3. Students will be able to see how radioactive elements change into other elements as the decay.
4. Students will see the role of alpha & beta particles.
5. Students will enhance skill of using Periodic Table of Elements

**Materials:**

1. Copies of Periodic Table
2. Students doing the presentation will research the decay series of uranium - 238.

**Evaluation:**

1. How well the group worked together.
2. Information & sources.
3. Presentation.