**The Mystery of Matter – Episode 3 – Into the Atom**

1. What was the first piece of the atom to be discovered?

2. Name one of the famous scientists that Moseley ended up working with in Manchester?

3. What did Rutherford say was in the center of the atom?

4. Instead of Light wave spectrums, what was Moseley using to investigate the elements?

5. What did Moseley’s study of X-rays help to discover?

6. Based on Moseley’s measurements, how many elements remained to be discovered?

7. What was Glenn Seaborg’s original goal?

8. What is the splitting of the atom called?

9. What did James Chadwick discover?

10. What is element 94 that Seaborg discovered?

11. What element was the first atomic bomb (dropped on Hiroshima) made of?

12. What element was the second atomic bomb (dropped on Nagasaki) made of?

13. What three simple particles make up everything in the world?