Name: Answer Key Pd: \_\_\_ Ast: \_\_\_\_\_

**100 Greatest Discoveries: Chemistry**

<https://www.youtube.com/watch?v=17v53fmqIBM>

1. What inventor/artist/philosopher was the first to suggest that the Greek element “air” was actually made of multiple gases? (~2:10)

**Leonardo DaVinci**

1. What element was “discovered” by Priestley but “invented” by Lavoisier? (~5:40)

**Oxygen**

1. Who discovered the relative weights of “ultimate particles”, now known as “atomic weight”? (~7:05)

**Dalton**

1. What did Kekulé dream about to help him visualize the ring of carbon and hydrogen atoms that form a benzene molecule? (~13:35)

**A snake catching its own tail.**

1. A German chemist named, Meyer, had come up with the same idea of “periodicity” as Mendeleev. Why has Mendeleev gotten most of the credit for the development of the periodic table? (~17:00)

**He didn’t have the courage to use the table to make predictions like Mendeleev did.**

1. What did Davy use to break down potash into its component elements (to “transform” chemicals)? (~20:10)

**electricity**

1. What color is emitted by strontium in a flame? (~21:30)

**green**

1. What did Bunsen and Kirchhoff discover with their spectroscope? (~22:40)

**New elements (cesium and rubidium) and the presence of sodium in the Sun**

1. How did Lewis explain the bonding of certain elements? (~28:05)

**Electrons are given or accepted on the outer shell (valence electrons)**

1. What do historians believe killed Marie Curie? (~31:50)

**Leukemia, believed to have been caused by radiation poisoning from her work with radium**