Class/Period:

Assignment: 9-24 and 9-25

Teacher: Thibodeau

- 1 The results of the gold foil experiment led to the conclusion that an atom is
 - 1 mostly empty space and has a small, negatively charged nucleus
 - 2 mostly empty space and has a small, positively charged nucleus
 - 3 a hard sphere and has a large, negatively charged nucleus
 - 4 a hard sphere and has large a large, positively charged nucleus
- 2 The discovery of the electron as a subatomic particle was a result of
 - 1 collision theory
 - 2 kinetic molecular theory
 - 3 the gold-foil experiment
 - 4 experiments with cathode ray tubes
- Four statements about the development of the atomic model are shown below.
 - A: Electrons have wavelike properties.
 - B: Atoms have small, negatively charged particles.
 - C: The center of an atom is a small, dense nucleus.
 - D: Atoms are hard, indivisible spheres.

Which order of statements represents the historical development of the atomic model?

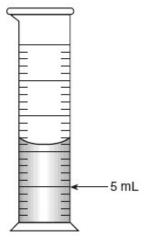
$$1 C \to D \to A \to B$$

$$2 C \to D \to B \to A$$

$$3 D \rightarrow B \rightarrow A \rightarrow C$$

$$4 D \to B \to C \to A$$

How much water should be added to the graduated cylinder shown below to increase the volume to 15 milliliters?



- 1 11 mL
- 2 10 mL
- 3 3 mL
- 4 4 mL

- 5 The basic unit of length in the metric system is the
 - 1 kilogram 2 gallon 3 liter 4 meter