1. According the the hypothesis of Oparin and the subsequent experiments of Miller and Urey, which of the following situations contributed to the origin of life on Earth?
   1. Organic compounds formed from meteorites that had fallen to Earth.
   2. Cells evolved in an environment lacking oxygen.
   3. Organic compounds formed from gases available in the atmosphere.
   4. Cells evolved from large prokaryotic cells that engulfed smaller prokaryotic cells
2. Scientists theorize that it took a billion years or more for oxygen in the atmosphere to reach the levels of today. Based on this idea, the first cells could be classified as which of the following?
   1. aerobic and photosynthetic
   2. anaerobic and heterotrophic
   3. photosynthetic and unicellular
   4. heterotrophic and eukaryotic
3. In the 1950s, Stanley Miller and Harold Urey conducted experiments in which they fired electrical sparks in the presence of a mixture of different gases. How did these experiments contribute to the theory of the origins of life on Earth?
   1. They proved that organic molecules formed from the accumulation of debris from space.
   2. They showed that organic molecules could be formed from materials available in the Earth's early atmosphere.
   3. They determined that the age of organic molecules can be measured by the half-life of isotopes.
   4. They discovered that organic molecules would not have formed without the presence of oxygen in the atmosphere.