**Read pages 423-428 in your book on “Earth’s Early History”. Answer the following questions.**

1. Describe the likely characteristics of the first organisms on Earth.
2. What is an autotroph? (You may need to look in your Ecology notes). What factors helped them thrive on Earth?
3. What change occurred in Earth’s atmosphere after the evolution of photosynthesizing prokaryotes? Why did those changes occur?
4. Give a detailed explanation of the Endosymbiont Hypothesis. You may include a diagram. How did mitochondria form? How did chloroplasts form? What evidence is there to support this hypothesis? Give at least 3 pieces of evidence.