**The Evolution of Cellular Organelles**

<http://www.sumanasinc.com/webcontent/animations/content/organelles.html>

1. What are three similarities between mitochondria and chloroplast organelles and prokaryotic organisms?
2. What type of reproduction do the organelles perform that resembles the way prokaryotes divide?
3. What do the similarities between the organelles and prokaryotes imply?
4. What is the name of the idea proposed in 1967 by Lynn Margulis that suggests eukaryotic cells arose from a mutually beneficial relationship between prokaryotic organisms?
5. What process did the prokaryote perform within the primitive eukaryote? What did this process produce that proved beneficial to the eukaryote?
6. How did the chloroplast arise within the eukaryote?
7. Do plants contain both mitochondria and chloroplasts?