

READING ACTIVITIES (Answer key)

1.9. Why is supposed that the first living beings were anaerobic heterotrophic unicellular prokaryotic cells?

They were probably:

- **Prokaryotic**, because prokaryotic cells are much simpler than eukaryotic cells.
- **Heterotrophic**, because there were huge amounts of organic matter in the primitive oceans
- **Anaerobic**, because the early atmosphere did not contain oxygen.

1.10. Are endosymbiosis theory and autogenous theory incompatible? Why?

No, they are not. In fact they are complementary. Some organelles were probably formed are by folding of the membrane (**autogenous theory**), such us endoplasmic reticulum or Golgi apparatus, and others by establishing symbiosis with other bacteria (**endosymbiosis theory**) such us chloroplasts and mitochondria.

