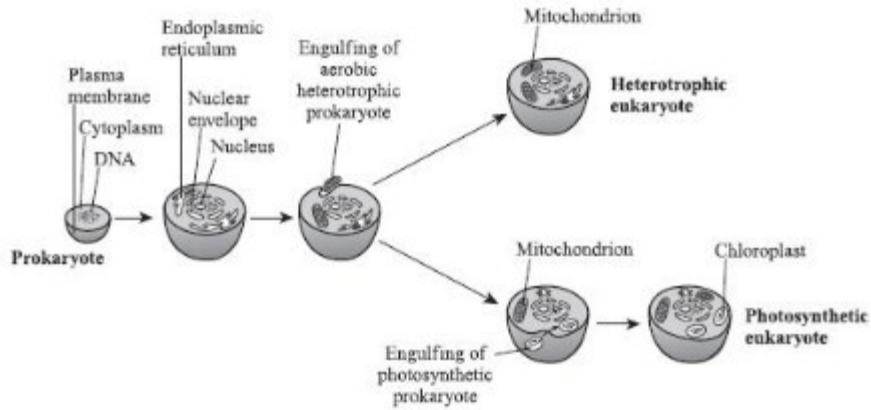


SC.912.L.15.8 – Origin of Life – Example 4 Answer

The diagram below shows a proposed theory of the origin of eukaryotic cells, called endosymbiosis.



Which of the following explains why cells that contained mitochondria-like organelles had an evolutionary advantage?

- A. They were able to photosynthesize**
- B. They had more DNA**
- C. They were able to make more use of available energy**
- D. They were immune to bacterial invasion.**

Answer

- C. They were able to make more use of available energy

Mitochondria are the organelles which manufacture ATP from organic molecules.