

Mastery Series: Prokaryotes VS. Eukarotes

1. Do prokaryotes or eukaryotes (or both) have:
 - Nucleus
 - ER
 - Mitochondria
 - Cell membrane
 - Nucleic acid
 - Cytoplasm
 - Ability to produce ATP
 - Circular DNA
 - Ribosomes
 - actin or similar filaments
2. List the main groups of living things – which one is prokaryotic?
3. Why are the words prokaryotes and bacteria basically interchangeable?
4. Which of the groups of living things has a cell membrane?
5. Which of the groups of living things has a cell wall?

Mastery Series ANSWERS: Prokaryotes VS. Eukaryotes

1. Do prokaryotes or eukaryotes (or both) have:
 - Nucleus: **eukaryotes**
 - ER: **eukaryotes**
 - Mitochondria: **eukaryotes**
 - Cell membrane: **both**
 - Nucleic acid: **both**
 - Cytoplasm: **both**
 - Ability to produce ATP: **both**
 - Circular DNA: **prokaryotes**
 - Ribosomes: **both**
 - actin or similar filaments: **both**
2. List the main groups of living things – which one is prokaryotic?
Bacteria are prokaryotes; Protists, Fungi, Plants and Animals are all eukaryotes
3. Why are the words prokaryotes and bacteria basically interchangeable?
Because all prokaryotes are bacteria and all bacteria are prokaryotes
4. Which of the groups of living things has a cell membrane?
All of them!
5. Which of the groups of living things has a cell wall?
Big Fun Party: Bacteria, Fungi and Plants