1. Compare and contrast prokaryotic and eukaryotic cells using a Venn diagram.
2. Name the components of the nucleus.
3. Compare and contrast the structure and function of the rough endoplasmic reticulum and the smooth endoplasmic reticulum using a Venn diagram.
4. Name the organs of the body that would have a higher number of rough ER and smooth ER.
5. How does the Golgi apparatus work with the endoplasmic reticulum?
6. Describe the structure and the function of lysosomes.
7. If cells were unable to make catalase, how could this be fatal?
8. Describe what happen once a lysosome encounters a vesicle with a bacterium that the cell has just ingested.
9. What is the role of vesicles in the cell?
10. Describe what happens to a plant if there is not enough water in its central vacuole.
11. Compare the structure of a chloroplast to the structure of a mitochondrion. How are they similar? How are they different?
12. Use a Venn diagram to compare and contrast microfilaments and microtubules. Include their functions, where they are found and their structural differences and similarities.
13. Describe the role of intermediate filaments play in the cytoskeleton.
14. Describe the structure and function of a flagellum.