

## Botany Unit 1 Study Guide

- Be able to correctly draw the general equation for photosynthesis, like we did in your notes.
- List the 3 components of the cell theory:
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- List the 10 organization levels of life (beginning at the cell)
- List the 11 characteristics of life (cell theory, organic compounds, ...)
- What scientific law teaches that energy cannot be created or destroyed, only transferred? \_\_\_\_\_
- What process replaces soil nitrogen? \_\_\_\_\_
- What are the 2 waste products of respiration? \_\_\_\_\_
- The most stable longest lasting community is called \_\_\_\_\_
- What process provides all of Earth's sugar and oxygen? \_\_\_\_\_
- What do we call competition between different species? \_\_\_\_\_
- What structure is the result of the fusion of 2 haploid gametes? \_\_\_\_\_
- What are the 4 different cycles we discussed in class?  
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- What type of symbiosis benefits one organism, while the other is unaffected?  
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- What is the difference between the 2 types of competition?
- What type of energy provides light and heat? \_\_\_\_\_
- Which form of radiation is usable in plants? \_\_\_\_\_
- What are the raw materials needed for photosynthesis? \_\_\_\_\_
- What is the simplest unit of life? \_\_\_\_\_