**AP BIO UNIT 2 REVIEW GUIDE 2021 – CELLS AND CELL MEMBRANES**

* Know the functions of all the cell parts, be able to predict what might be a consequence of a cell part not functioning properly
* Be able to explain endosymbiotic theory AND the evidence supporting it
* Given sample date similar to our carrot lab, be able to estimate the molarity of a cell and calculate its water potential
* Describe each of the types of passive transport, know the similarities and differences between them
* What are the differences between active and passive transport?
* Explain the function of aquaporins. What might happen to a cell is aquaporins were added or removed from its membrane?
* Know the functions of ALL the components of a cell membrane
* How can a cell adjust the fluidity of its membrane?
* What parts do ALL cells contain? What are the differences between plant and animal cells? Prokaryotic and eukaryotic cells?
* Predict what would happen to a cell placed in hypertonic solutions. Predict what would happen to a cell placed in hypotonic solutions.
* What type of molecules pass through a cell membrane most easily? Least easily?

Also expect an FRQ related to water potential calculations

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