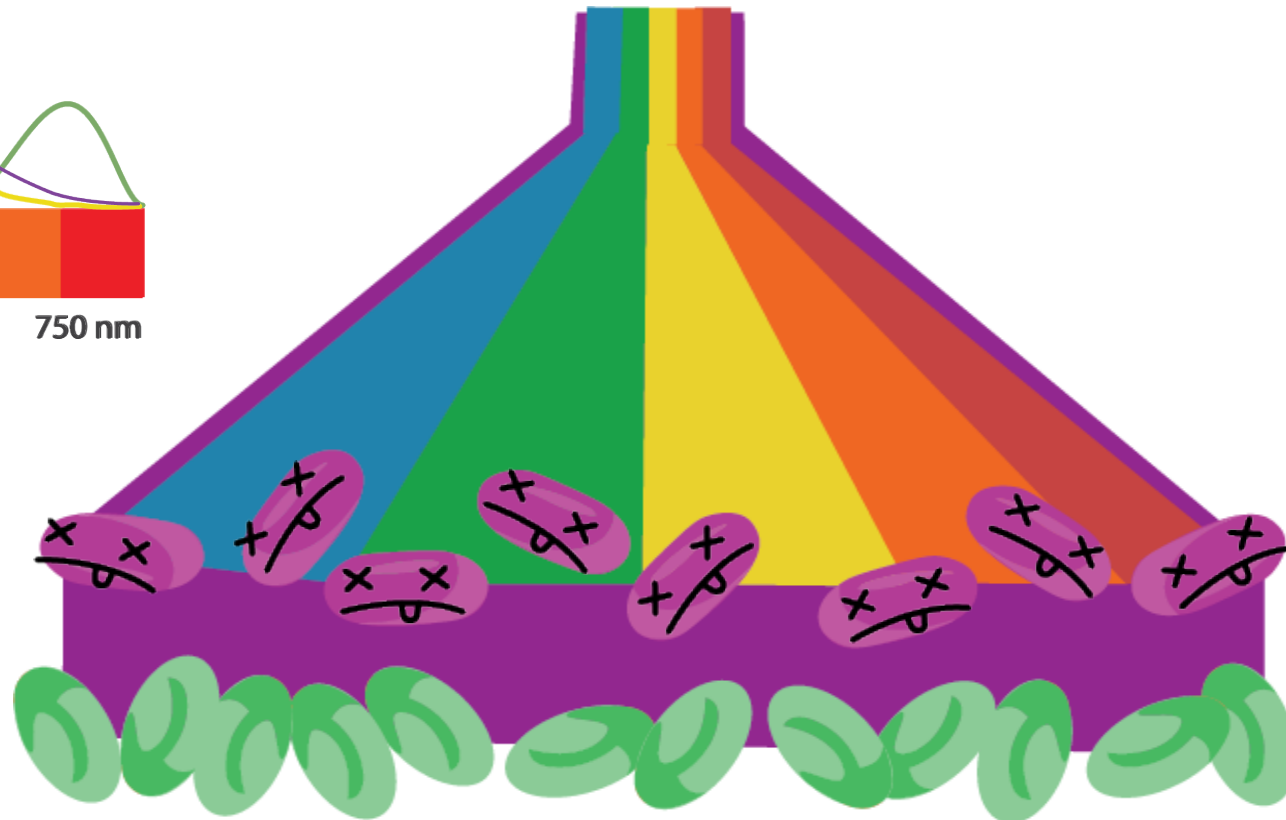
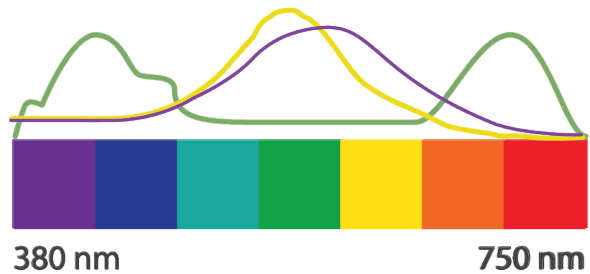


HOW DID CYANOBACTERIA, WHICH REFLECT GREEN LIGHT, REPRODUCE MORE SUCCESSFULLY THAN HALOBACTERIUM WHICH ABSORBS GREEN LIGHT?



- Ancient oceans likely had a layer of Halobacterium soaking up the Sun's rays.
- Cyanobacteria coexisted with Halobacterium and evolved to absorb the leftover reflected purple light; the retinal based life forms did not absorb.
- Absorbing green light may be too energetic.
- Plums of oxygens began to accumulate, which started to kill off the Archaean's.