**HONORS BIOLOGY REVIEW PROJECT CHOICES**

* *Each* ***group*** *will choose one* ***project*** *to complete together.* 
  + *This project will be due the week of May 28-30, 2013.*
    - *2nd period Tuesday May 28*
    - *3rd period and 4th period Wednesday May 29*
    - *6th period Thursday May 30.*
  + *Group members should exchange contact information and have a plan (with specific jobs/roles for each member) and supply list for completion of the project.*
* *The remainder of the projects will also be completed either* ***independently or as a partner project.***
  + *One project per group will be due on the following dates.*
  + *May 10, May 17, May 20 and May 24.*
  + *A schedule of projects and assigned members must be submitted by May 3.*
  + *All projects will include a class room presentation.*
  + *A rubric will be provided for each project.*
  + *Peer reviewed rubrics will be submitted by each group*
  + *Projects will be calculated as a test grade.*

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| **TOPIC** | **PROJECT CHOICES** | **ESSENTIAL CONTENT/SKILLS** |
| **Cell Structure and Function**  **Eukaryotic versus Prokaryotic**  **Plant versus Animal** | Models  or  Self-Created Video | * Summarize the structure and function of organelles in eukaryotic cells (including the nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts, and ribosomes) and ways that these organelles interact with each other to perform the function of the cell. * Compare prokaryotic and eukaryotic cells in terms of their general structures (plasma membrane and genetic material) and degree of complexity. * Explain how homeostasis is maintained in the cell and within an organism in various environments (including temperature and pH). |
| **The Cell Cycle**  *Mitosis versus Meiosis* | Interpretive Dance,  Cheer  Or  Board Game | * Analyze how cells grow and reproduce in terms of Growth 1, Synthesis, Growth 2, Mitosis and cytokinesis. * Analyze how cells grow and reproduce in terms of Meiosis I and Meiosis II. |
| **Biological Molecules** | Advertisement (magazine, tv commercial)  Or  Models | * Structure and function of organic molecules in organism to include carbohydrates, proteins, lipids and Nucleic Acids. * Summarize the relationship among DNA, proteins and amino acids in carrying out the work of cells and how this is similar in all organisms |
| **Human Activities on the Environment** | News Cast  Or  Puppet Show | * Population growth, technology, consumption of resources and production of waste. * Impact on North Carolina. |
| **Biochemical Processes** | Shoe Box Diorama  Or  Models | * Analyze photosynthesis and cellular respiration in terms of how energy is stored, released, and transferred within and between these systems. |

**HONORS BIOLOGY REVIEW PROJECTS**

Dear Parents,

Please review the Biology EOC review project choices with your student. These projects will be counted as **test grades** (total of 2) and are a perfect opportunity to investigate and review the topics we have covered throughout the year. Late grades **cannot** be accepted. I will accommodate students with 1- 2 days during each week to work in class and the remainder of the projects will be completed out of the classroom. Students working in groups should plan to work outside of class and have assigned roles. Rubrics for each project type can be found on our class website: [www.slaterscience.weebly.com](http://www.slaterscience.weebly.com) on the EOC Project Review Page.

*My student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will complete \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ project, due on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2013. My student is a member of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_group project that is due on \_\_\_\_\_\_\_\_\_\_\_\_\_\_2013. My students job/role in this project is to :*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Parent Signature.*