

Biophysics Project

2011-2012

Purpose: Physics principles are at the heart of most of the mechanisms and adaptations found in the living world. Through this project, students will build strong understandings of how biology and physics work together providing critical survival strategies and adaptations in living creatures. College readiness skills will also be developed that include: project planning, time management, independent research and review of materials, higher-level use of technology as a communication tool, and peer review.

Timeline: The final well produced video will be due at the end of May with critical deliverables due during the process.

Initial Idea approval	Evidence of research	Outline of video script	Draft video review	Final video completed
Feb 1	March 1	May 1	May 18	May 31

Project Details: I would encourage you all to view the videos that are posted on the class wiki to see what was turned in last year. Some are better than others and by watching all of them, you will get a better sense of what is expected than any written paper will provide. <http://hannibalphysics.wikispaces.com/BioPhysics+Projects>

- ✓ You need a plan! Research NOW for possible ideas. Think about creatures that are interesting to you because they have some unique behavior or attribute that 'might' be related to physics...
- ✓ Get a flash drive and make a folder to put resources into. Start a document with web links, image links, and other helpful info.
- ✓ SCHEDULE a 5 to 10 minute conversation with your teacher to refine your plan and get additional help or links **BY FEB 1st!**
- ✓ Keep records of the work you complete and resources you have collected on your flash drive. Through teacher-student conversation and sharing of resources collected, your "evidence" requirement must be met by March 1st.
- ✓ Based on the rubric provided, a draft script will be submitted by May 1st for review.
- ✓ By no later than May 18th, a draft video will be shared with your teacher and at least two peers for preliminary feedback. You will also be responsible for providing peer feedback to others.
- ✓ A final video, ready for uploading to Vimeo, will be submitted along with a copy of your final script no later than 11:59 PM May 31st.
- ✓ Peer review of all submitted videos will occur via in class time and through the wiki. Grades will be based on both the peer review as well as scoring rubric.

READ the rubric carefully to know the detailed parts and pieces expected!