

Advanced Biology | Physmo Challenge

March 12, 2015

Student/Parent Guardian:

This semester the Advanced Biology class will be participating in the annual BHS Physmo Challenge which takes place on Friday, May 15th, 2015. This will be a mandatory project for all Advanced Biology students. The project will fulfill the Scientific Inquiry and Scientific Reflection and Social Implications portions the Michigan Merit Curriculum for Biology. The project also meets the current emphasis on projects based in the STEM fields (Science, Technology, Engineering, and Mathematics) as part of the Next Generation Science Standards.

Guidelines for the project:

- Project will be worth 200 points in the Labs/Projects section of the grade book
- Groups of 3 made up of only Advanced Biology students
- Students must register their team at

<http://techclub.buchananschools.com/physmo-challenge.html>

Physmo Guidelines:

<https://docs.google.com/document/pub?id=17ePwiCputRV5hPE9GaFBfxwhiu31FY1JC-rhxpEDLhM>

-Grades will be based on the following:

- 0-59% = Failure to Pass Safety and Rules Inspection, Failure to Register, Disqualification (Rules Section 6), Failure to produce working Physmo, Can't fire 2 beanbags minimum distance for competition
- 60% = Producing a Physmo device that passes Safety and Rules Inspection, Fire 2 beanbags minimum distance for competition
- 61-89% = Grade improves based on performance during Pre-qualifying:
 - how well device works (knocking down boxes, speed, repeatability)
 - quality of design, how well group works together
- 90% or higher = Place in top 20
 - allowed to compete in single elimination tournament
 - grade improves better you do in tournament
- Extra-credit opportunities:
 - Medalist- Top 3 finish
 - Top 10 finish
 - Highest place finisher in our class
 - Ingenuity Award, Eye Candy Award

Please have Parent/Guardian and Student sign this sheet and return it to me by March 23, 2015.

Parent/Guardian _____ Date: _____

Student: _____ Date: _____