**AP Biology Microbiology Project 2015**

**Topic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Objective and Presentation Requirements:**

* Each student must choose a microbe of importance to humans from a medical, environmental, or biotechnology standpoint. A short presentation that highlights the lifestyle of that microbe, its relevance to humans, and its life / infectious cycle must be included. Prokaryotes, viruses and parasites are the focus here but I will also allow prions.
* You will prepare a five minute presentation that will focus on the characteristics and behavior of your organism so you MUST include a slide that shows the organism and another that includes a map that shows its distribution. Be sure that maps and other graphics indicate the source, and time frame if appropriate (if that information is not part of the graphic you may include it on another part of the slide).
* Required information:
  + Name and type of organism; characteristics of this type of organism
  + Mechanism of infection and/or infection cycle – you must explain why this organism is a problem and how it evades or defeats your immune system.
  + Distribution map if appropriate; how widespread are the problems caused by this critter.
  + Immune system response to infection by this organism
  + What are the treatments
  + Are there any beneficial uses

**Stylistic Concerns**

* Time: 5-6 minutes
* Submit your topic to Mrs. Allen in order to reserve it. You may look at the list to see what microbes are already taken for your bell. There cannot be two projects on the same topic in the same bell and there are no group projects.
* Styles: PowerPoint, Prezi, Video, Multimedia mix including YouTube – your presentation must run on the system at Maury High School.
* Slides – no more than 10
  + must include graphics on most slides (for example: pictures, graphs, maps, etc)
  + Font – no smaller than 28
  + **No copied paragraphs** from the internet unless it is a short quote and very important to the point you are making.
  + Information must be in bulleted, outline form
  + You must discuss your slides with the class – not read them
  + Your discussion must include information that expands on what you have on your slides.
  + Timing the slides is not necessary
  + Email your project to me when you are finished so that I can make sure it will run in my classroom. Do not save your work to a computer at Maury or it may disappear when the computer is rebooted. Save to a jump drive or email your work to yourself.

**Grading**

1. Your presentation will be evaluated by both your peers and by me.
2. Points possible: 70
3. The quality of both your presentation and your media will be evaluated.