AP Biology Practice 2 – Using Mathematics Video Review Sheet

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NEED YOUR CALCULATOR!!!

- A. All sciences have what at their core?
- B. What is "Mathematical Biology" driven by:
 - 1. _____: sequencing DNA what is the trend?
 - 2. _____ Theory: being used to predict
 - 3. Computing _____: computers are getting
 - Laboratory experiments in silico: a. In vitro:
 - b. In vivo:
 - c. In silico: simulating
- C. Four equations in the four big ideas: want to be familiar with these 1. Evolution:
 - 3. Information:

2. Free energy:

4. Systems:

- D. Understandings in Using Mathematics:
 - 1. ______the _____ of a Mathematical Routine: Pause video, try and do it and then check it. You should do this one no problem. Show your work below
 - 2. Apply _____ Routines: Again, try this problem, showing your work below. I think you can do this one based on common sense!
 - 3. _____ quantities that _____ natural phenomena. a. You can absolutely do this, show work.
 - b. Potatoes: you can do this too! _____M Sucrose