

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. Genomics: sequencing DNA – what is the trend?
2. Chaos Theory Theory: being used to predict
3. Computing Power: computers are getting
4. Laboratory experiments in silico:
 - a. In vitro: Test tubes/ Petry dish
 - b. In vivo: Lab rat
 - c. In silico: simulating life in a computer

C. Four equations in the four big ideas: want to be familiar with these

1. Evolution: Hardy_Weinberg
2. Free energy: Trident's = -iCRT
3. Information: $x^2 = E (0.2)^2/e$
4. Systems: $dN/dt = r_{max}N(K-N/K)$

D. Understandings in Using Mathematics:

1. Justify the Selection 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
.45% was light allele and square that and you get .7
2. Apply Mathematical Routines Routines: Again, try this problem, showing your work below. I think you can do this one based on common sense!
.72/96 = 0.0075
3. Estimate quantities that Describe natural phenomena.
 - a. You can absolutely do this, show work.
 - b. Potatoes: you can do this too! .28% M Sucrose

The Great Divide Worksheet Key Ap Bio

Joacim Rocklöv



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