

Making the Transition to the New Curriculum Framework

I. How Will This Change . . . What You Teach?v

A. The new Curriculum Framework

1. Big Ideas
2. Essential Knowledge
3. Science Practices
4. Learning Objectives

B. Where do you find the information you need?

1. www.pearsonschool.com/APCampbellBiology
2. advancesinap.collegeboard.org (Google "Advances in AP")
3. AP Central

C. Our Approach

1. Simplify the Curriculum Framework to a manageable outline (4 pages)
2. Find where these topics are covered in the textbook
3. Highlight topics in the Table of Contents
4. Decide what "Illustrative Examples" we will use to enrich our course
5. Highlight where these are covered in the text

D. Incorporating Science Practices into your course

1. Mathematics, graph and data analysis, modeling and more require practice!
2. *Inquiry in Action: Interpreting Scientific Papers*
3. Biological Inquiry: A Workbook of Investigative Cases
4. University of Buffalo Case Studies (sciencecases.lib.buffalo.edu)

II. How Will This Change . . . the Lab?

A. A move toward *Guided Inquiry*

1. Content needed
2. Teacher expectations should be high
3. Teach a technique—may do this using an existing AP lab
4. Guide student questions in early labs

C. A Sample Activity: Enzymes

1. Evaluate using "Miniposter" presentations (see Brad Williamson's resources at www.nabt.org/blog/author/ksbioteacher)

B. Some Systems for Inquiry

Pillbugs, fruit flies, floating disks, enzyme reaction chambers, respirometers

D. Where to go for Help???

1. College Board Information at *Advances in AP*
2. Carolina Biological: Already has *Guided Inquiry Labs* developed with kits
3. *Teaching High School Science Through Inquiry* by Douglas Llewellyn (NSTA)

III. How Will This Change . . . the Exam?

A. ALL objectives link Science Practice to Content

B. 63 multiple choice items; 6 grid-ins (90 minutes)

C. Free Response: 2 multi-part questions, 7 single-part questions (80 minutes)

C. Campbell Test Bank as a resource to develop items

IV. Other Resources

A. *Mastering Biology* (internet source for *Campbell Biology*)