

APSI Day Two Agenda

Tuesday-AM

Warm-Up Question (5 Minutes)

1. Write the general chemical equation for cellular respiration.
 - a. Identify the compound that is oxidized.
 - b. Identify the compound that is reduced.
 - c. Explain whether this is an exergonic or an endergonic reaction. Justify your answer.

Activity (30 Minutes)

Dialysis tubing with corn syrup.

Formulate your hypothesis.

Relate it to real-world applications.

Activity (20 Minutes)

Using the Workshop Handbook—find and label the following:

Curriculum Framework, Pg. 1 & 101

Equity and Access, Pg. 27

Understanding the Exam, Pg. 31

Instructional Design and Assessment, Pg. 41

Inquiry-Based Instruction, Pg. 55

Syllabus Development, Pg. 71

Appendix, Pg. 95

Science Practices, Pg. 193

Appendix to CF, Pg. 201

The Laboratory Investigations, Pg. 217

Exam Information, Pg. 221

How the CF is Assessed, Pg. 223

Answers to MC Questions, Pg. 259

Sample FRQs, Pg. 261

Appendix A, Pg. 269

Appendix B, Pg. 282

Syllabus Development Guide, Pg. 285

Sample Syllabus 1, Pg. 301

Sample Syllabus 2, Pg. 317

Sample Syllabus 3, Pg. 324

Sample Syllabus 4, Pg. 339

AP Biology Practice Exam, Pg. 362

Practice FRQs, Pg. 407

Notes on the Practice Exam, Pg. 422

AP Biology Exam Materials, Pg. 483

FRQ Scoring Guidelines and Sample Responses, Pg. 495

Activity (5 Minutes)

What is AP Biology? The Curriculum Framework (Pgs 101-215)

Discussion (10 Minutes)

Exploring the Curriculum Framework, what is it? How is it structured?

Activity (45 Minutes)

Choose a lab that you routinely do with your students, one of your best, and one that you are very comfortable with.

Now turn to page 8 of your Workbook and decide which of the Science Practices (Pgs 193-198) are addressed with your lab.

For any that aren't, could they easily be incorporated into your course?

If not, do you address these Science Practices in other labs? Which ones?

Break (15 Minutes)

Activity (45 Minutes)

Examine the Curriculum Framework (Pg 101-215). Pick at least two components of an Essential Knowledge (Pg 102) piece and write a couple of quiz questions that deal with each strand. Remember, the EK component incorporates an Illustrative Example (Pgs 17-26) of your choosing/expertise, and should be related to a Learning Objective (Pgs. 200-215). Your question should incorporate portions of both Essential Knowledge and a Learning Objective.

Lunch (45 Minutes)

Tuesday-PM

Afternoon Labs (180 Minutes)

BLAST Lab (plus Cladistics Extension on Wednesday) (Big Idea 1)

Hardy-Weinberg Lab (Big Idea 1)

pGLO Lab (Big Idea 3)

Review and Reflection of the labs—teacher group presentations to the class.

Answer these questions:

1. What did I learn about the lab(s) today?
2. What are/were the key ideas?
3. What are some ways I can incorporate this into my classroom along with inquiry? If there are no ways to incorporate it, why not?
4. What did I understand well?
5. What do I need from others to help me so I understand it better?
6. How does it related to other areas of the curriculum?
7. What suggestions would you make to a colleague who has to do these activities in a non-lab based classroom?