

Welcome to the APES FRQ!

- **90 Minutes**
 - **40% of your grade**
- 

The APES exam has 4 FRQ's

- Document-Based: you read & respond to an article
 - Read the entire article, underline key facts. Answer with timely information—an event that has happened in the past few years. Cite specific examples if possible and expand upon these ideas
 - This type of question often has a debate portion – present pros and cons for your points
- Data Analysis: you interpret a table or graph
 - Look for patterns and trends
 - Think scientific method—you may have to design or critique an experiment, analyze data, interpret results, etc. If it is a lab that you don't recognize—don't panic! You do have lab skills, just think about the situation and what you would need to measure, collect, report, etc...

The APES exam has 4 FRQ's

- Synthesis & Evaluation type 1
 - One of these will be mathematical –you can do math without a calculator! Be sure to show all of your work in a logical way that can be followed easily. Use units!
 - No double-jeopardy (partial credit for multi-step Q's)
 - No working = NO POINTS
- Synthesis & Evaluation type 2
 - One of these will be a regular essay – you will be asked to analyze and evaluate something in-depth
 - Provide examples

General Guidelines...

- *In general, make sure that you read the question and answer each part—no points can be awarded if you don't address an issue*
- This is NOT the same as an AP English FRQ
- Don't spend too much time on any one part of a question. Remember, to earn 10 points you must address each part.
- Structure your essay like the question (maybe even label which part you are answering).
- You need to write in complete, coherent sentences and your writing needs to be legible and large enough for old eyes to interpret!
 - One word answers/incomplete sentence = no points!
- Details = points! Use appropriate language and cite specific examples when appropriate.
- You may be asked to cite specific environmental laws

Some well-tested tips...

- Answer the questions in this order:
 1. Data Analysis
 2. Document-Based
 3. S&E (essay emphasis)
 4. S&E (math emphasis)
- If you are asked for “1” example, only your first response will be graded
- Learn the following terms:
 - Environmental Consequence
 - Economic Consequence
 - Societal/Human Health Consequence
 - Government/NG/Agency “Actions”

Key Terms

- Environmental Consequences
 - Specific Animals/Plants/Ecosystem/Abiotic factors
 - NOT human health effects...
- Economic Consequences
 - Money or Jobs
 - NOT human health effects...
- Societal/Human Health Consequences
 - People, Society, Toxicity
- Government/Agency “Actions”
 - Enforce, regulate, tax, educate, fine...

Sound “Scientific”!


- Use *specific* environmental vocabulary
- Avoid generalism
 - Ex. “...the pH affects biodiversity” (*what pH?, HOW...?*)
- Avoid scaremongering & gobbledegook...
 - Ex. “...the air pollution will destroy all life forms and the planet will die...”
- No matter how difficult the question is, try to think of something scientific and *specific* to write

You are not a poet...

- Write complete sentences
- No introductory paragraph
- No concluding paragraph
- No “plot”, protagonists, conflicts or romance...
- No frills, poetry, or cutesy ideas
- Scientists just want the answer

**You'll have 90 minutes
for 4 FRQ's**

That's about 22
minutes for each
question.



Later, we'll work with the time limit. Today, we're just going to practice a few basic strategies.



Divide the 22 minutes:

- Prepare: 1 or 2 minutes to think and outline
- Write: 16 to 19 minutes
- Proof-read: 1 or 2 minutes

Prepare

- First, read the question.
- Next, underline the task.
- Then, close your eyes for a minute to let your mind stretch over the question.

Preparation, continued

- Jot down some ideas, words
- Close your eyes again. **THINK.**
- Outline: Write an outline of points you want to include in your answer.

To review, how do you prepare?

- Read, underline
- Think
- Jot down words
- Think
- Outline
- see you in a couple of min.

**Take about 18 or 19 minutes to
write your essay.**

(you're going to save
a couple minutes at
the end to proof read)



Go!!

see you in 16 to 19
minutes.



Proof-read: You're going to reread your essay to make it better.

- Complete sentences? Capital letter & period?
- Can you add a word or another example to increase the value of your answer?
- To save time, don't erase. Instead draw a single line through the error...

Now Go!! proof-read





Stop. Now, you're done.

**Before we actually grade your
FRQ,**



Take some time to reflect. What did you learn today?



**How will you make your next FRQ
a better answer?**



And do you see why it is so important to do your own work and thinking?

So you'll be prepared for the APES exam.



Do you realize that by the time of the exam, you're going to know more than about 80% of the other students taking this exam!!



**And you'll have had lots of
experience writing FRQ's.**



**You're going to do a great job on
the test!!!**

