

# AP Chemistry

**Exam timing:** Students will have 25 minutes to read and respond to Question 1, and then 5 minutes to upload their response. After uploading the response to Question 1, students will have 15 minutes to respond to Question 2, with 5 additional minutes to upload their response to Question 2. Once their response to Question 1 has been submitted, they cannot go back to it.

## Question 1 (25 mins.) | 60% of exam weight

### Long free-response question

Question 1 presents students with a chemical system and/or data and assesses students' ability to

- Explain chemical phenomena using models, theories, and representations at the particulate and macroscopic levels
- Draw conclusions from experimental results, identify and explain experimental procedures that are aligned to a question, and analyze sources of error
- Analyze a system with quantitative reasoning
- Support claims with evidence and reasoning

(CER)

### Corresponding free-response question (FRQ) type

Similar in structure to a long FRQ on a traditional AP Chemistry Exam, with minor modifications to enable students to choose to submit either typed or handwritten responses.

## Eligible Units: 1–7

Please note: Even when concepts in some of the included units (1-7) overlap with Units 8-9, questions on the 2020 exam will not require student knowledge of concepts in Units 8 and 9. For example, pH sensitivity (Topic 7.13) and free energy considerations of solubility equilibrium (Topic 7.14) are connected to Unit 8 and Unit 9, respectively, but students will not be required to use concepts from Units 8 and 9 in order to answer questions successfully.

## Question 2 (15 mins.) | 40% of exam weight

### Long free-response question

Question 2 presents students with a chemical system and/or data and assesses students' ability to

- Explain chemical phenomena using models, theories, and representations at the particulate and macroscopic levels
- Draw conclusions from experimental results, identify and explain experimental procedures that are aligned to a question, and analyze sources of error
- Analyze a system with quantitative reasoning
- Support claims with evidence and reasoning

### Corresponding free-response question (FRQ) type

Similar in structure to a long FRQ on a traditional AP Chemistry Exam, with minor modifications to enable students to choose to submit either typed or handwritten responses.

## Other Course Specific Info:

- As on a traditional AP Exam, students will require access to the Periodic Table of the Elements and the AP Chemistry Equations and Physical Constants sheet, and should access and/or print it before the exam.
- Questions on the 2020 AP Chemistry Exam are designed such that required calculations can be done with a pencil and paper, with no calculator (including one with graphical or statistical capabilities) required. However, use of a calculator is allowed and may be helpful. Simple ("four-function") calculators are freely available as apps for computers and phones (i.e. most or all internet-connected devices), and can be installed beforehand for use on the exam.