Key Takeaways
AP Digital Testing Guide
Updates for AP Exams

- College Board/LCPS delayed AP testing dates
- Digital exams for 25 AP Subjects
- Increased Instructional Resources
  - AP Daily and AP Classroom
# AP Exam Locations and Dates

## MAY 2021

<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16</td>
<td>17</td>
<td>18 12 PM</td>
<td>19 12 PM</td>
<td>20 12 PM</td>
<td>21 8 AM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>English Lit</td>
<td>US History</td>
<td>US Gov’t/Politics</td>
<td>Latin Spanish Lang</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 PM</td>
<td>4 PM</td>
<td>4 PM</td>
<td>12PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Computer Science</td>
<td>Macroeconomics</td>
<td>World History</td>
<td>Spanish Lang</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12 PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>22</td>
</tr>
</tbody>
</table>

|        | 23     | 24 8 AM| 25 8 AM  | 26 12 PM | 27 12 PM| 28 12 PM |
|        |        | Calculus AB/BC| Chemistry| English Lang| Biology| ComparativeGov’t |
|        |        | 12PM Physics C | 12PM Statistics| 4 PM Seminar| 4 PM| Human Geography |
|        |        | Physics 1      |          |          |          | 4 PM Microeconomics |

## JUNE 2021

<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9 12 PM</td>
<td>10 12 PM</td>
<td>11</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Calculus AB/BC</td>
<td>Chemistry</td>
<td>Paper/Pencil Exams</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4 PM Physics C</td>
<td>4 PM</td>
<td>Paper/Pencil Exams</td>
<td></td>
</tr>
</tbody>
</table>

AP Studio Art will prepare portfolios on May 11th and 13th during class.
Dominion High School can safely administer paper exams for the exams that are not available digitally. (Calculus AB & BC, Chemistry, Physics, Statistics, and World Language Exams)

At Home
Students can take at-home **digital** testing options for 25 AP courses.

In School

2 Location Settings/Formats
Paper/Pencil Testing: The Basics
Paper/Pencil, In-School Testing

- Exams start at 8 AM and 12 PM
- Students should arrive 30 minutes prior
- Health Mitigation Strategies in place
- No Pre-Administration
- Photo ID, approved calculator, pencils, and black or dark blue ink pen
Digital Testing
# Digital Testing: Device Requirements

**What’s allowed**

<table>
<thead>
<tr>
<th>Allowed*</th>
<th>School-Managed</th>
<th>Personal, Student-Managed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows PC</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Mac</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>School-managed Chromebook</td>
<td>✔️</td>
<td>✗</td>
</tr>
<tr>
<td>Cell Phone Tablet</td>
<td>✗</td>
<td>✗</td>
</tr>
</tbody>
</table>
# Digital Testing: Technical Requirements

## Summary

<table>
<thead>
<tr>
<th></th>
<th>PC</th>
<th>Mac</th>
<th>Chromebook</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating System</strong>*</td>
<td>Windows 8.0/8.1/10</td>
<td>OS X 10.11–10.15 &amp; 11.0+</td>
<td>Chrome OS v83+</td>
</tr>
<tr>
<td><strong>Processor</strong>*</td>
<td>1 GHZ</td>
<td>1 GHZ</td>
<td></td>
</tr>
<tr>
<td><strong>RAM</strong>*</td>
<td>2 GB RAM (64-bit)</td>
<td>2 GB RAM (64-bit)</td>
<td></td>
</tr>
<tr>
<td><strong>Disk Space</strong>*</td>
<td>200 MB free</td>
<td>200 MB free</td>
<td>100 MB free</td>
</tr>
<tr>
<td><strong>Screen size and resolution</strong>*</td>
<td>10” diagonal, 1024 x 768 pixels</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Device management</strong></td>
<td>Managed or unmanaged</td>
<td>Managed or unmanaged</td>
<td>Google Workspace managed</td>
</tr>
<tr>
<td><strong>Keyboard/mouse</strong></td>
<td>Internal or external (wired or Bluetooth)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Battery and Power</strong></td>
<td>Plugged to power source</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Network</strong>*</td>
<td>Reliable internet access (wired or Wi-Fi), at least 3 Mbps for each student Inbound/ outbound traffic to/from collegeboard.org</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Digital Testing: Security

Reminders about digital testing

<table>
<thead>
<tr>
<th>Security Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital exams administered will:</td>
</tr>
<tr>
<td>• Not allow students to return to answered questions or move back-and-forth between unanswered questions.</td>
</tr>
<tr>
<td>• Begin at the same time worldwide with synchronous section start times.</td>
</tr>
<tr>
<td>• Include security features to prevent students from collaborating, accessing unauthorized aids, or attempting to have someone else test for them.</td>
</tr>
</tbody>
</table>

To prevent students from gaining an unfair advantage, digital exams will:

• Not include questions that can be answered with internet searches, textbooks, notes, study guides, or similar material.
• Be reviewed with plagiarism detection software.
• Be reviewed with post-exam analyses to identify collaboration or use of unauthorized aids.
Digital Testing at School

Digital exams at school
• Unreliable internet connection
• Quiet space where testing can occur uninterrupted
• Student at school without transportation home
• Case-by-case basis

Email david.c.edwards@lcps.org or call 571-434-4412
Readiness Steps for Students
4 Readiness Steps for Students
Taking digital AP Exams

**BEFORE EXAM DAY**

**STEP 1:**
BEGINNING APRIL 8
Download and Install the Digital Testing App

**STEP 2:**
APRIL THROUGH JUNE
Practice with Sample Questions in the Digital Testing App

**STEP 3:**
3 DAYS BEFORE EXAM DAY
Complete Exam Setup

**STEP 4:**
30 MINUTES BEFORE THE EXAM
Check In to the Exam

2021 AP Exams
Step 1: Download and Install the Digital Testing Application

Student steps before exam day: Starting April 8

- Starting April 8, students can download the digital testing application.
- The application will automatically be loaded to school-managed Chromebooks.
Step 2: Practice with Sample Questions in the Digital Testing Application

Student steps before exam day: Starting April 8

- Students can access digital practice for each of their subjects.
- There are 2 ways students can access digital practice.
  - Digital Testing Application
  - My AP
Step 3: Complete Exam Setup

• Exam setup opens 3 calendar days before each digital exam.
• Students can access exam setup by launching the digital testing application.
Step 3: Complete Exam Setup
Access exam setup from the Digital Testing App

• Students can access exam setup by launching the **digital testing app** and signing in with their College Board username and password.

• They should find their exam on **My Tests** and click the **Start Exam Setup** button.

**NOTE:** Students’ digital exams will not appear until 5 days before the exam date.
Step 4: Check In to the Exam

Student steps on exam day: 30 Minutes before start time

• **When**: Students will need to check in 30 minutes before their exam’s start time.
  - Check in opens at 11:30 a.m. EDT for 12 p.m. EDT exams and 3:30 p.m. EDT for 4 p.m. EDT exams.
• **How**: Students can check in to their exam by launching the digital testing application.
Step 4: Check In to the Exam

Active Tests

AP® Biology Exam

Date
May 27, 2021

Start Time
12:00 p.m. ET

Status: Testing Starts Soon

Check In Now
Digital Testing: The Experience
Tools and Features
Preview the testing environment

Exam Directions
The AP Calculus AB exam is 3 hours and 15 minutes long. Section I lasts 1 hour and 45 minutes, and has 45 multiple choice questions. Section II lasts 90 minutes and has 6 free response questions. Each section is divided into two parts with separate time limits.

Unless otherwise specified, the domain of a function f is assumed to be the set of all real numbers x for which f(x) is a real number.

On the free response section, you will answer each question in multiple parts, shown on successive pages. You may move back and forth among the parts of the question you are answering, but once you submit your response to the last part of a free-response question, you may not go back to any part of that question.

Do not spend too much time on any one question, but remember that you cannot go back to a question once you’ve submitted it.

Section Directions
CALCULUS AB Section II, Part A:
30 minutes, 2 free response questions.

Graphing calculator required for this section.

You may use your calculator to solve an equation, find the derivative of a function at a point, or calculate the value of a definite integral. However, you must clearly indicate the setup of your question, namely the equation, function, or integral you are using. If you use other built-in features or programs, you must show the mathematical steps necessary to produce your results.

Show all your work, even though a question may not explicitly remind you to do so. Clearly label any functions, graphs, tables, or other objects that you use. Justifications require that you give mathematical reasons, and that you verify the needed conditions under which relevant theorems, properties, definitions, or tests are applied. Your work will be scored on the correctness and completeness of your methods as well as your answers. Answers without supporting work will usually not receive credit.

Continue
Important Features of Digital AP Exams

- Full-length.
- Exam timing.
- Question types.
- Students can’t go back.

cb.org/ap2021examformat
Free-Response Questions

The digital exam experience

As conventional sources of crude oil are depleted, unconventional sources such as oil sands (also known as tar sands) are being utilized. Oils sands contain bitumen, which can be processed into a synthetic crude oil. A region of boreal forest in Alberta, Canada, that covers a deposit of oil sands will be cut and removed during the process of bitumen extraction. It is estimated that the deposit contains 73 billion barrels of recoverable bitumen. The rate of extraction from the deposit will be approximately 1 million barrels of bitumen per day.

(a) Identify one ecological benefit, other than providing habitat, that is provided by forests.

(b) Identify one economic benefit that is provided by forests.

(c) Describe TWO environmental consequences, other than those related to the loss of boreal forest habitat, that result from the extraction of bitumen or the transportation of synthetic oil to customers.
Accommodations for Digital Exams

Digital AP Exams were designed so all students can take them.

On digital exams, accommodations will:

- Be available for students with approved accommodations.
Resources to Help Prepare
Preparation
Tools to help you succeed

• **AP Classroom**
  • Practice questions and Benchmarks to help you know if you are ready

• **AP Daily**
  • College Board will push out digital review sessions for students.
  • AP Lessons are recorded and available through YouTube

• **Practice Exams**
  • Testing application is loaded with practice tests with answer keys and response rubrics
Test taking plan

Recommendations

• **Schedule the test**
  • As a family, plan for the student to have uninterrupted time to take the exam.
  • Communicate this plan to family members, friends, coaches, employers
  • Interruptions were a problem for many test takers last year.

• **Create a Testing Environment**
  • Students should have a comfortable chair, table/desk, free from distractions

• **Test Habits**
  • Good night sleep
  • Light exercise before the exam
  • Eat light, nutritious meals before testing