AP Coordinators and Proctors:

Update: Managing the Exam Break

In the 2020-21 AP Exam Instructions, you'll see information about the standard 10-minute break between the AP Physics C: Mechanics and the AP Physics C: Electricity and Magnetism Exams given during Administration 1 if you have students taking both exams.

This year, local health and safety guidelines may require that only a limited number of students may access the restroom or hallways at the same time. In such cases, you may elect to double the time of the scheduled breaks (including accommodated breaks) to ensure that students can access the restroom or hallway in an orderly fashion.

As per standard AP policy, the break must be monitored. Please note that the decision to lengthen the break is optional, does not need to be applied to every testing room uniformly, and is not required to administer AP Exams. If your school chooses to provide a longer break, you’re not required to use all the additional time.

You must not begin the regularly scheduled AP Physics C: Electricity and Magnetism Exam before 2 p.m. (1 p.m. in Alaska).
AP Physics C: Mechanics Exam

Administration 1 Exam Date: Monday afternoon, May 3, 2021
Administration 2 Exam Date: Monday afternoon, May 24, 2021

<table>
<thead>
<tr>
<th>Section</th>
<th>Total Time: 45 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Calculator Allowed</td>
</tr>
<tr>
<td>Section I</td>
<td>Number of Questions: 35</td>
</tr>
<tr>
<td></td>
<td>Percent of Total Score: 50%</td>
</tr>
<tr>
<td></td>
<td>Writing Instrument: Pencil required</td>
</tr>
<tr>
<td>Section II</td>
<td>Number of Questions: 3</td>
</tr>
<tr>
<td></td>
<td>Percent of Total Score: 50%</td>
</tr>
<tr>
<td></td>
<td>Writing Instrument: Pen with black or dark blue ink, or pencil</td>
</tr>
</tbody>
</table>

Note: A four-function, scientific, or graphing calculator may be used on all sections of the AP Physics C: Mechanics Exam. See “Calculator Policy” in Part 2 of the 2020-21 AP Coordinator’s Manual for details about the calculator policy.

Before Distributing Exams: Check that the title on all exam covers is Physics C: Mechanics. If there are any exam booklets with a different title, contact the AP coordinator immediately. This exam does not have a scheduled break between Section I and Section II.

What Proctors Need to Bring to This Exam

- Exam packets
- Answer sheets
- The personalized AP ID label sheet for each student taking the exam
- Part 2 of the 2020-21 AP Coordinator’s Manual
- This book—2020-21 AP Exam Instructions
- AP Exam Seating Chart template
- Extra calculators
- Extra rulers or straightedges
- Pencil sharpener
- Container for students' electronic devices (if needed)
- Extra No. 2 pencils with erasers
- Extra pens with black or dark blue ink
- Unlined paper
- Stapler
- Watch
- Signs for the door to the testing room
  - “Exam in Progress”
  - “Phones of any kind are prohibited during the exam administration, including breaks”
Tables containing equations commonly used in physics are included in the Section I Multiple Choice booklet and the Section II orange Reference booklet. The equation tables are provided for use during the entire exam. Students are not allowed to bring their own copies of the equation tables to the exam room.

Students may take both Physics C exams, Mechanics only, or Electricity and Magnetism only.

Administration 1

The exams are given on the same day during this administration.

The Mechanics exam is administered first, after which students taking both exams are given a break. Then the Electricity and Magnetism exam is administered. Before exam day, determine which exams students are taking. Those taking both Physics C exams and those taking Physics C: Mechanics only should report for the 12 noon start time (11 a.m. in Alaska). Those taking Electricity and Magnetism only should report to the testing room after the break at approximately 2 p.m. (1 p.m. in Alaska). If all students are taking Electricity and Magnetism only, you must not begin the regularly scheduled exam before 2 p.m.

The two exams are in separate exam packets, and require separate answer sheets. At the beginning of the session, you will distribute only the packets and answer sheets for Mechanics. The materials for Electricity and Magnetism will be distributed after the break.

Administration 2

NEW The Mechanics and Electricity and Magnetism exams are given on different days during this administration. Physics C: Mechanics is administered at 12 noon (11 a.m. in Alaska) on Monday, May 24. Physics C: Electricity and Magnetism is administered at 8 a.m. (7 a.m. in Alaska) on Tuesday, May 25.

Calculator Use

Students are permitted to use rulers, straightedges, and four-function, scientific, or graphing calculators for this entire exam (Sections I and II). Before starting the exam administration, make sure each student has an appropriate calculator, and any student with a graphing calculator has a model from the approved list on the “AP-Approved Graphing Calculators” table in Part 2 of the 2020-21 AP Coordinator’s Manual. If a student does not have an appropriate calculator or has a graphing calculator not on the approved list, you may provide one from your supply. If the student does not want to use the calculator you provide or does not want to use a calculator at all, they must hand copy, date, and sign the “Calculator Release Statement” in Part 2 of the 2020-21 AP Coordinator’s Manual.

Students may have no more than two calculators on their desks. Calculators may not be shared. Calculator memories do not need to be cleared before or after the exam. Students with Hewlett-Packard 48–50 Series and Casio FX-9860 graphing calculators may use cards designed for use with these calculators. Proctors should make sure infrared ports (Hewlett-Packard) are not facing each other. Since graphing calculators can be used to store data, including text, proctors should monitor that students are using their calculators appropriately. Attempts by students to use the calculator to remove exam questions and/or answers from the room may result in the cancellation of AP Exam scores.

SECTION I: Multiple Choice

Before starting the exam administration, make sure each student has an appropriate calculator for the exam. See details in the section above.
Do not begin the exam instructions below until you have completed the General Instructions.

This exam includes survey questions. The time allowed for the survey questions is in addition to the actual test-taking time.

Make sure that you administer the exam on the scheduled date and begin the exam at the designated time. Remember, you must complete a seating chart for this exam. See pages 273–274 for a seating chart template and instructions. See “Seating Policy” in Part 2 of the 2020-21 AP Coordinator’s Manual for exam seating requirements.

If you are giving the exam during Administration 1, say:
It is Monday afternoon, May 3, and you will be taking the AP Physics C: Mechanics Exam.

If you are giving the exam during Administration 2, say:
It is Monday afternoon, May 24, and you will be taking the AP Physics C: Mechanics Exam.

Look at your exam packet and confirm that the exam title is “AP Physics C: Mechanics.” Raise your hand if your exam packet contains any other exam title and I will help you.

Once you confirm that all students have the correct exam, say:
In a moment, you will open the exam packet. By opening this packet, you agree to all of the AP Program’s policies and procedures referenced in the AP Exam Terms and Conditions.

You may now remove the shrinkwrap from the outside only of your exam packet. Do not open the Section I booklet; do not remove the shrinkwrap from the Section II booklets. Put the white seals and the shrinkwrapped Section II booklets aside.

Carefully remove the AP Exam label found near the top left of your exam booklet cover. Place it on the front of your answer sheet on the light blue box near the bottom that reads “AP Exam Label.”

If students accidentally place the exam label in the space for the AP ID label or vice versa, advise them to leave the labels in place. They should not try to remove the label; their exam can still be processed correctly.

Now turn over your answer sheet to the side marked page 2 and look at Item I at the top of the page. Print the name of this exam, the exam form, and the form code.

The exam form and the form code are located on the front cover of the Section I booklet in the lower right corner; ignore the large number under these two items—it is not part of the form or form code.

Look up when you have finished Item I.

When students have completed Item I, say:
Listen carefully to all my instructions. I will give you time to complete each step. Please look up after completing each step. Raise your hand if you have any questions.

Give students enough time to complete each step. Don’t move on until all students are ready.

Read the statements on the front cover of the Section I booklet.
Sign your name and write today’s date.
Now print your full legal name where indicated. . . .

Does anyone have any questions? . . .

Turn to the back cover of your exam booklet and read it completely. . . .

Give students a few minutes to read the entire back cover.

Are there any questions? . . .

You will now take the multiple-choice portion of the exam. You should have in front of you the Section I: multiple-choice booklet and your answer sheet. You may never discuss the multiple-choice exam content at any time in any form with anyone, including your teacher and other students. If you disclose the multiple-choice exam content through any means, your AP Exam score will be canceled.

You must complete the answer sheet using a No. 2 pencil only. Mark all of your responses on page 2 of your answer sheet, one response per question. Completely fill in the circles. If you need to erase, do so carefully and completely. No credit will be given for anything written in the exam booklet. Scratch paper is not allowed, but you may use the margins or any blank space in the exam booklet for scratch work.

Your score on the multiple-choice section will be based solely on the number of questions answered correctly.

Rulers, straightedges, and calculators may be used for the entire exam. You may place these items on your desk.

Are there any questions? . . .

Then say:

You have 45 minutes for this section. Once final time is called for Section I, stop working immediately.

Open your Section I booklet and begin.

Note Start Time ____________. Note Stop Time ____________. 

Check that students are marking their answers in pencil on their answer sheets and that they have not opened their shrinkwrapped Section II booklets. Make sure they've placed their AP ID label sheets under their chairs. Make sure that students are using their calculators appropriately. You should also make sure that Hewlett-Packard calculators' infrared ports are not facing each other and that students are not sharing calculators.

After 35 minutes, say:

There are 10 minutes remaining.

After 10 minutes, say:

Stop working and turn to the AP Physics Survey Questions. . . .

You have 2 minutes to answer Questions 101–106. These are survey questions and will not affect your score. You may not go back to work on any of the exam questions. You may now begin.

To help you make sure students are not working on the exam questions, the two pages with the survey questions are identified with a large S on the upper corner of each page. Give students 2 minutes to answer the survey questions.

Then say:

Close your booklet and put your answer sheet faceup on your desk. Make sure you have your AP ID label and an AP Exam label on your answer sheet. Sit quietly while I collect your answer sheets.
Collect an answer sheet from each student. Check that each answer sheet has an AP ID label and an AP Exam label.

After all answer sheets have been collected, say:

Now you must seal your exam booklet using the white seals you set aside earlier. Affix one white seal to each area of your exam booklet cover marked “PLACE SEAL HERE.” Fold each seal over the back cover. When you have finished, place the booklet faceup on your desk. I will now collect your Section I booklet.

Collect a Section I booklet from each student. Check that each student has signed the front cover of the sealed Section I booklet.

Proceed to Section II.

SECTION II: Free Response

When all Section I materials have been collected and accounted for, say:

May I have everyone’s attention? Please get your AP ID label sheet from under your chair and place it on your desk.

For this section of the exam you may use a pen with black or dark blue ink or a No. 2 pencil to write your responses. Does everyone have a pen or pencil?

You may now remove the shrinkwrap from the Section II packet, but do not open any booklets until you are told to do so.

You should now have in front of you:

- your AP ID label sheet,
- the orange Section II: Free Response, Reference booklet, and
- the Section II: Free Response booklet with a shaded block of information on the cover. This booklet is where you’ll write your responses.

First, look at the front cover of the Section II: Free Response booklet. Read the bulleted statements. Look up when you have finished.

Read the last statement.

Print the first, middle, and last initials of your legal name in the boxes and print today’s date where indicated. This constitutes your signature and your agreement to the statements on the front cover.

Now take an AP ID label from your label sheet and place it on the shaded box marked “AP ID Label” at the bottom of your Free Response booklet. If you don’t have any AP ID labels, write your AP ID in the box. Look up when you have finished.

Now turn to the back cover and complete Items 1 through 3 under “Important Identification Information.” For Item 3, your school code is printed at the top right of your AP ID label sheet.

Give students time to complete Items 1 through 3.

Read Item 4.

Are there any questions?
Read the following if administering the exam on May 3 during Administration 1.
Next, you need to collect the AP ID label sheets from students who are not taking Physics C: Electricity and Magnetism. The students who are taking Physics C: Electricity and Magnetism will keep their AP ID label sheets for that exam.

Say:
I need to collect AP ID label sheets from some of you. Please listen carefully.
If you are also taking the AP Physics C: Electricity and Magnetism Exam today, place your AP ID label sheet under your chair now.
If you’re not taking the AP Physics C: Electricity and Magnetism Exam today, leave your AP ID label sheet on your desk and I will collect it now.
While AP ID label sheets are being collected, read the remaining information on the back cover of the free-response booklet. Do not open any booklets until you are told to do so. Look up when you have finished.
Collect the AP ID label sheets from students who are not taking the AP Physics C: Electricity and Magnetism Exam.

Read the following if administering the exam on May 24 during Administration 2.
Now I will collect your AP ID label sheet. Leave your label sheet on your desk.
While AP ID label sheets are being collected, read the remaining information on the back cover of the free-response booklet. Do not open any booklets until you are told to do so. Look up when you have finished.
At this point, collect the AP ID label sheet from every student.

Continue for all administrations.

Say:
Are there any questions? . . .
Now read the information on the front cover of the orange Reference booklet. Look up when you have finished.
Rulers, straightedges, and calculators may be used for Section II. Be sure these items are on your desk.
You have 45 minutes to complete Section II. You are responsible for pacing yourself and may proceed freely from one question to the next.
The orange booklet has reference material only. You may make notes in the orange booklet, but no credit will be given for any work written in the orange booklet.
You must write your responses in the free-response booklet. You must use a pen with black or dark blue ink or a No. 2 pencil. If you use a pencil, be sure that your writing is dark enough to be easily read.
The questions are printed in the free-response booklet. The question number at the top of the page indicates which question to answer on that page. Write your responses in the space provided for each question.
If you run out of space, raise your hand.
Once final time is called, stop working immediately.
Are there any questions? . . .
Open both booklets and begin.

Note Start Time ____________. Note Stop Time ____________.
Check that students are writing their answers in their free-response booklet, not in their orange booklet.

Make sure that students are using their calculators appropriately. You should also make sure that Hewlett-Packard calculators’ infrared ports are not facing each other and that students are not sharing calculators.

If a student runs out of space and raises their hand, give them extra paper and instruct them to write the following on the top of each sheet they use:

- their AP ID,
- the exam title, and
- the question number they are working on.

They must not write their name.

**After 35 minutes, say:**

*There are 10 minutes remaining.*

**After 10 minutes, say:**

*Stop working and close both booklets. Place them faceup on your desk. Keep your booklets separate; don’t put one inside the other...*

If any students used extra paper for a question in the free-response section, have those students staple the extra sheet(s) to the first page corresponding to that question in their free-response booklets. Complete an Incident Report after the exam and return these free-response booklets with the extra sheets attached in the Incident Report return envelope (see page 270).

**Then say:**

*Remain in your seat, without talking, while the exam materials are collected.*

Collect a free-response booklet and an orange booklet from each student. Check for the following:

- Free-response booklet front cover: The student printed their initials and today’s date on the front cover and placed an AP ID label on the shaded box at the bottom.
- Free-response booklet back cover: The student completed the “Important Identification Information” area.
- The student wrote responses in the free-response booklet and not in the orange booklet.

If any students wrote their responses in the orange booklet instead of the free-response booklet, refer to the Administration Incidents table for instructions. (See “Answers written in an orange booklet instead of in the free-response booklet” on page 269.)

*The orange booklet must be returned with the rest of your exam materials. Keep the orange booklets separate from the free-response booklets. Do not place free-response booklets inside the orange booklets or vice versa.*

**Then say:**

*I have a few last important reminders:*

*You can have one AP score report sent for free. June 20 is the deadline to indicate or change the college, university, or scholarship program that you’d like to receive your free score report. This needs to be done through “My AP.”*
Next, read the directions in the following box for either Administration 1 or Administration 2, depending on when you’re administering this exam.

<table>
<thead>
<tr>
<th>If you are giving the exam during Administration 1, say:</th>
</tr>
</thead>
<tbody>
<tr>
<td>You may not discuss or share the free-response exam content with anyone unless it is released on the College Board website in about two days. Your AP Exam scores for this year will be available online in July.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>If you are giving the exam during Administration 2, say:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the content in this exam may ever be discussed or shared in any way at any time. Your AP Exam scores for this year will be available online in July.</td>
</tr>
</tbody>
</table>

Read the following if you’re administering the exam on May 3 during Administration 1.

When all exam materials have been collected and accounted for, return any electronic devices you may have collected before the start of the exam to the students who are only taking the Physics C: Mechanics Exam. Do not return devices to students who are staying to take the Physics C: Electricity and Magnetism Exam.

<table>
<thead>
<tr>
<th>If no students are taking Physics C: Electricity and Magnetism, say:</th>
</tr>
</thead>
<tbody>
<tr>
<td>You are now dismissed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>If some students are taking Physics C: Electricity and Magnetism, say:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Those of you taking Mechanics only are now dismissed.</td>
</tr>
</tbody>
</table>

The students taking the Electricity and Magnetism exam now get a 10-minute break. Remember that the administration of the Electricity and Magnetism exam cannot begin before 2 p.m. (in Alaska: 1 p.m.), but should start before 3 p.m. (in Alaska: 2 p.m.).

After the students taking Mechanics only have left, say:

If you will also be taking the Physics C: Electricity and Magnetism exam, please listen carefully to these instructions before we take a 10-minute break. Get your AP ID label sheet from under your chair and put it on your desk. You must leave your AP ID label sheet on your desk during the break. Please put all of your calculators under your chair. Your calculators and all other items you placed under your chair at the beginning of this exam must stay there. You are not permitted to open or access them in any way. You are not allowed to consult teachers, other students, notes, textbooks, or any other resources during the break. You may not make phone calls, send text messages, use your calculators, check email, use a social networking site, or access any electronic or communication device. You may not leave the designated break area. If you do not follow these rules, your score will be canceled. Are there any questions? . . .

You may begin your break. Testing will resume at ______________.

Make sure students understand where the designated break area is.

IMPORTANT: Both the exam room and students in the designated break area must be monitored.

At the start of the break, walk around the room to ensure all exam materials—either for Physics C: Mechanics or for Physics C: Electricity and Magnetism—are accounted for. Immediately contact the Office of Testing Integrity (OTI) if any exam materials are missing. Testing must not resume until the exam materials are located or OTI is contacted. (See contact information for OTI on the inside front cover.)
## AP Physics C: Mechanics Exam

### 2020-21 AP Exam Instructions

If you will be administering Physics C: Electricity and Magnetism at 2 p.m., be sure all exam materials are kept secure during the break. When the students return from break, turn to page 222 and begin the exam administration for Physics C: Electricity and Magnetism.

If you have no students taking Physics C: Electricity and Magnetism, complete the steps in After-Exam Tasks (see below).

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**After-Exam Tasks**

Return the AP ID label sheets to the AP coordinator so the label sheets can be organized for each upcoming exam administration. Keep in mind that the schedule printed on the label sheet may not reflect recent changes to a student’s exam schedule. If you need to confirm a student’s exam schedule, reference the AP coordinator’s master exam list.

Be sure to give the completed seating chart to the AP coordinator. Schools must retain seating charts for at least six months (unless the state or district requires that they be retained for a longer period of time). Schools should not return any seating charts in their exam shipments unless they are required as part of an Incident Report.

**NOTE:** If you administered exams to students with accommodations, review Part 2 of the 2020-21 AP Coordinator’s Manual and the 2020-21 AP SSD Guidelines for information about completing the Nonstandard Administration Report (NAR) form and returning these exams.

The exam proctor should complete the following tasks if asked to do so by the AP coordinator. Otherwise, the AP coordinator must complete these tasks:

- Complete an Incident Report for any students who used extra paper for the free-response section. (Incident Report forms are provided in the coordinator packets sent with the exam shipments.) These forms must be completed with a No. 2 pencil. It is best to complete a single Incident Report for multiple students per exam subject, per administration, as long as all required information is provided. Include all exam booklets with extra sheets of paper in an Incident Report return envelope (see page 270).

- Return all exam materials to secure storage until they are shipped back to the AP Program. (See “Storing Exam Materials” in Part 2 of the 2020-21 AP Coordinator’s Manual for more information about secure storage.)