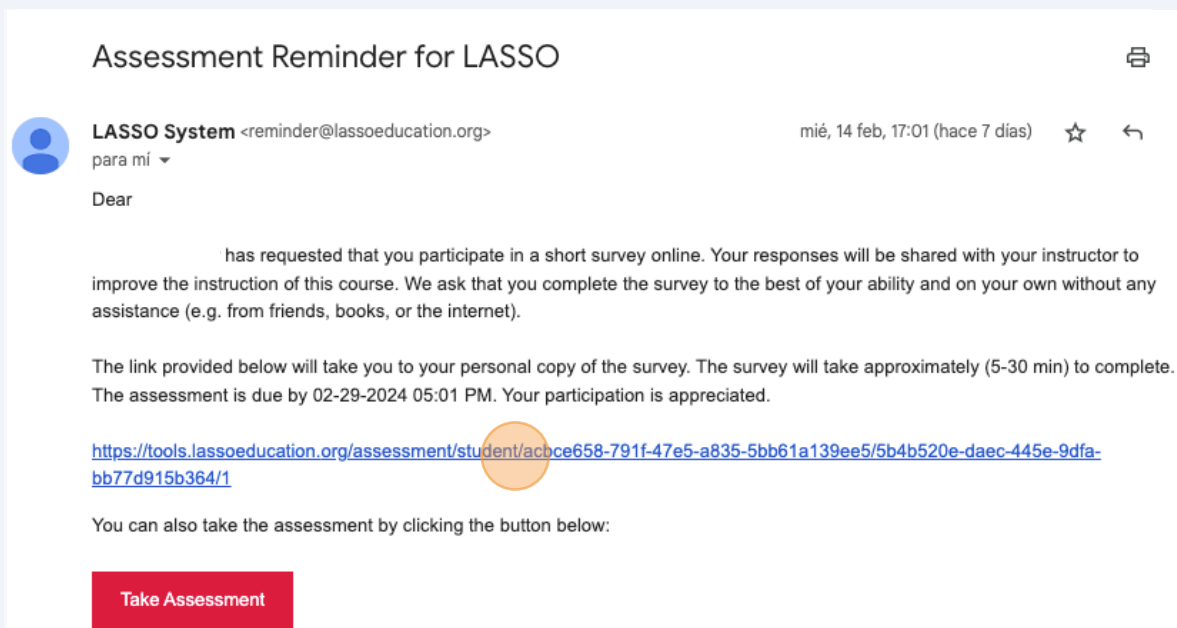


# How to complete an assessment on LASSO

This guide provides step-by-step instructions on how to complete an assessment on LASSO. Following these steps will allow the students to easily navigate to the assessment, answer the questions, and submit their responses.

1

Go to your email and open the assessment reminder received from LASSO. Click the link or the "Take Assessment" button.



2

The assessment will be displayed in a new window. Give your best answer to the questions without using any outside resources (e.g., your book or the internet).

&lt; BACK

1 ▾

NEXT &gt;

- 1 Two metal balls are the same size but one weighs twice as much as the other. The balls are dropped from the roof of a single story building at the same instant of time. The time it takes the balls to reach the ground below will be:

- ☐ about half as long for the heavier ball as for the lighter one.
- ☐ about half as long for the lighter ball as for the heavier one.
- ☐ about the same for both balls.
- ☐ considerably less for the heavier ball, but not necessarily half as long.
- ☐ considerably less for the lighter ball, but not necessarily half as long.

SAVE AND COMPLETE LATER

NEXT &gt;



You can navigate the questions using the "NEXT" button or the dropdown menu with the question numbers.

## Conceptual Evaluation

1 ▾

NEXT &gt;

below. Friction is so small that it can be ignored. A person wearing spiked shoes along the ice. Choose the one force (A through G) which would keep the sled

only one answer for each blank. If you think that none is correct, answer choice

## Force and Motion Conceptual Evaluation

BACK

NEXT &gt;

sled on ice moves in the ways described in questions 1-7 below. A person wearing spiked shoes standing on the ice can apply a force to the sled and push it along the ice in the ways described in each statement below.

You may use a choice more than once or not at all but choose only one answer for each blank. If you think that none is correct, answer choice



3

Answer all the questions. After you finish the assessment, a window with an informed consent form will be displayed. Read it carefully and select the "YES" or "NO", then click "Next".

Home 0

## Informed Consent Form

Recipient researchers must sign agreements promising to keep the data confidential. Researchers who receive deidentified data must also promise not to attempt to reidentify you. Researchers who receive identifiable data must have an institutional review board (IRB)-approved research protocol.

You should know, however, that it is possible that other people and offices responsible for making sure research is done safely and responsibly will see your information. Federal government regulatory agencies, auditing departments of Iowa State University, and the Institutional Review Board (a committee that reviews and approves human subject research studies) may inspect and/or copy study records to fulfill their oversight responsibilities.

Results based on the LASSO data will be shared with the scientific community, typically through publication in journal articles or books or academic presentations. These results will not include any information that could identify you.

The LASSO platform will automatically generate reports of student performance for different demographic groups (e.g., men and women) that will be shared with your instructor. These reports will share results for groups of students (not individual students) and will not contain any information that could identify you.

**FERPA**  
Pursuant to the Family Educational Rights and Privacy Act (FERPA), your educational institution may not release your personally identifiable education records without your written permission unless another applicable exception allows for such release. With this understanding, you request, consent, and authorize your educational institution to release your protected student information, which includes records related to the online questionnaire you completed in LASSO to assess student learning in this course, to Dr. Ben Van Dusen at Iowa State University (ISU) for purposes of research.

You understand:

- Under FERPA, you have the right not to consent to the release of your educational records to ISU.
- You have the right to receive a copy of such records upon your request to your educational institution.
- That this consent shall remain in effect until you revoke it, in writing, delivered to Dr. Ben Van Dusen, but that any such revocation shall not affect disclosures previously made to ISU prior to the receipt of your written revocation.
- Your electronic acceptance of this form will be treated as your signature for purposes of FERPA consent.
- That once released to ISU, your educational institution does not have the ability to control the information, and ISU may re-disclose the information. It is the sole responsibility of ISU to comply with all applicable laws and regulations regarding re-disclosure of the information.

**Questions**  
For questions about the LASSO research project, you may contact Dr. Ben Van Dusen via email at [contact@lassoeducation.org](mailto:contact@lassoeducation.org), or by phone at 515-294-0317.  
If you have any questions about the rights of research subjects or research-related injury, please contact the IRB Administrator, (515) 294-4566, [IRB@iastate.edu](mailto:IRB@iastate.edu), or Director, (515) 294-3115, Office of Research Ethics, Iowa State University, Ames, Iowa 50011.

**Your Consent**  
Please click below to indicate whether you are willing to allow your LASSO assessment and demographic questionnaire responses to be used for research purposes.

☒ YES - I give permission for my LASSO assessment and questionnaire responses to be retained indefinitely and used for research purposes. I also certify I am 18 years of age or older, and that I have read and understand the information above.

☐ NO - I do not give permission for research use of my LASSO assessment and questionnaire responses.

**Next**

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Version 5.7.0.A  
Released Date: 05.01.2024

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If you answered yes to the prior question, a window with demographic questions will appear. When you have completed it, click "SUBMIT".

☐ Teaching Assistant

☐ Faculty

**What is your status in school?**

☐ 8th grade or below

☐ 9th grade

☐ 10th grade

☐ 11th grade

☐ 12th grade

☐ 1st Year college

☐ 2nd Year college

☐ 3rd Year college

☐ 4th Year college

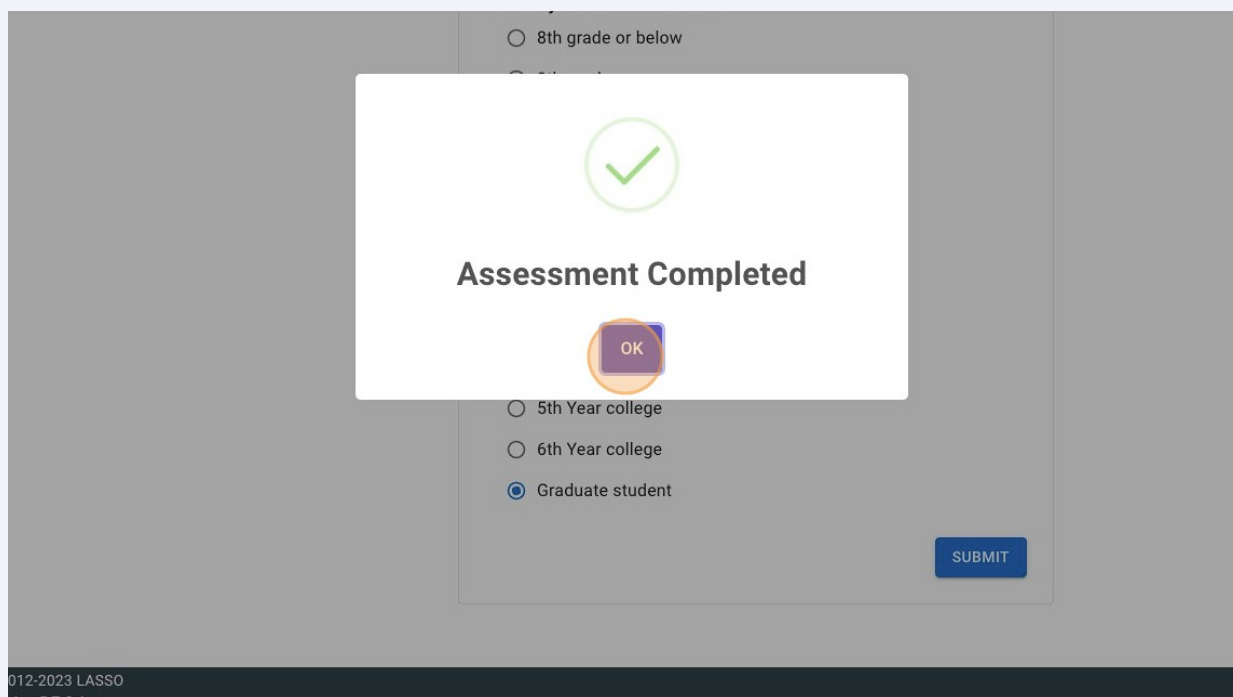
☐ 5th Year college

☐ 6th Year college

☒ Graduate student

**SUBMIT**


- 5 A confirmation window will be displayed, click "OK" to close it.



The screenshot shows a confirmation dialog box in the center of the screen. The dialog box is white with a green checkmark icon at the top. Below the icon, the text "Assessment Completed" is displayed. At the bottom of the dialog box, there is a purple button with the text "OK". The background is a blurred view of the assessment interface, showing a list of radio buttons for selecting a grade level: "8th grade or below", "5th Year college", "6th Year college", and "Graduate student". The "Graduate student" option is selected. A blue "SUBMIT" button is visible in the bottom right corner of the background interface. At the bottom left of the screen, there is a footer with the text "012-2023 LASSO" and "Version 5.7.0.A".

## Complete the assessment later.

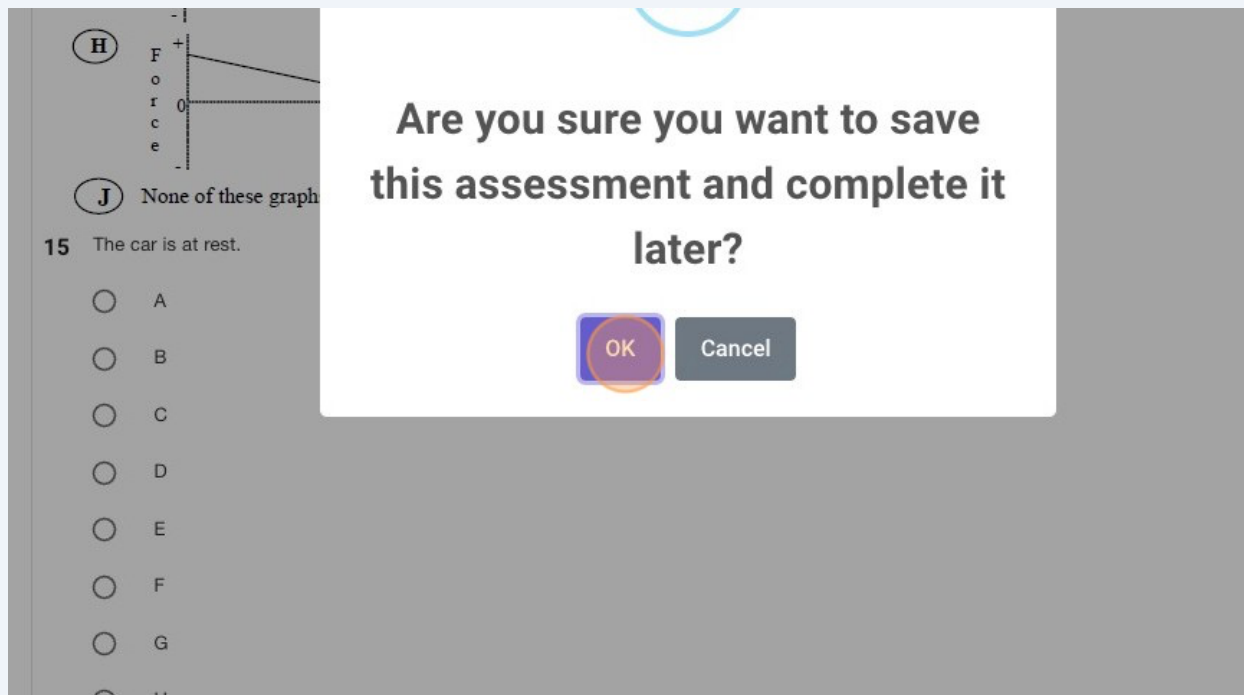
- 6 You can pause the assessment at any time by clicking the "SAVE AND COMPLETE LATER" button.



The screenshot shows a question interface. At the top, there are three buttons: "< BACK", "29", and "NEXT >". The question text is: "29 An empty office chair is at rest on a floor. Consider the following forces:  
1. A downward force of gravity.  
2. An upward force exerted by the floor.  
3. A net downward force exerted by the air.  
Which of the forces is (are) acting on the office chair?" Below the question, there are five radio button options: "1 only.", "1 and 2.", "2 and 3.", "1, 2, and 3.", and "none of the forces. (Since the chair is at rest there are no forces acting upon it.)". At the bottom right, there are two buttons: "SAVE AND COMPLETE LATER" and "NEXT >". The "SAVE AND COMPLETE LATER" button is highlighted with an orange circle.

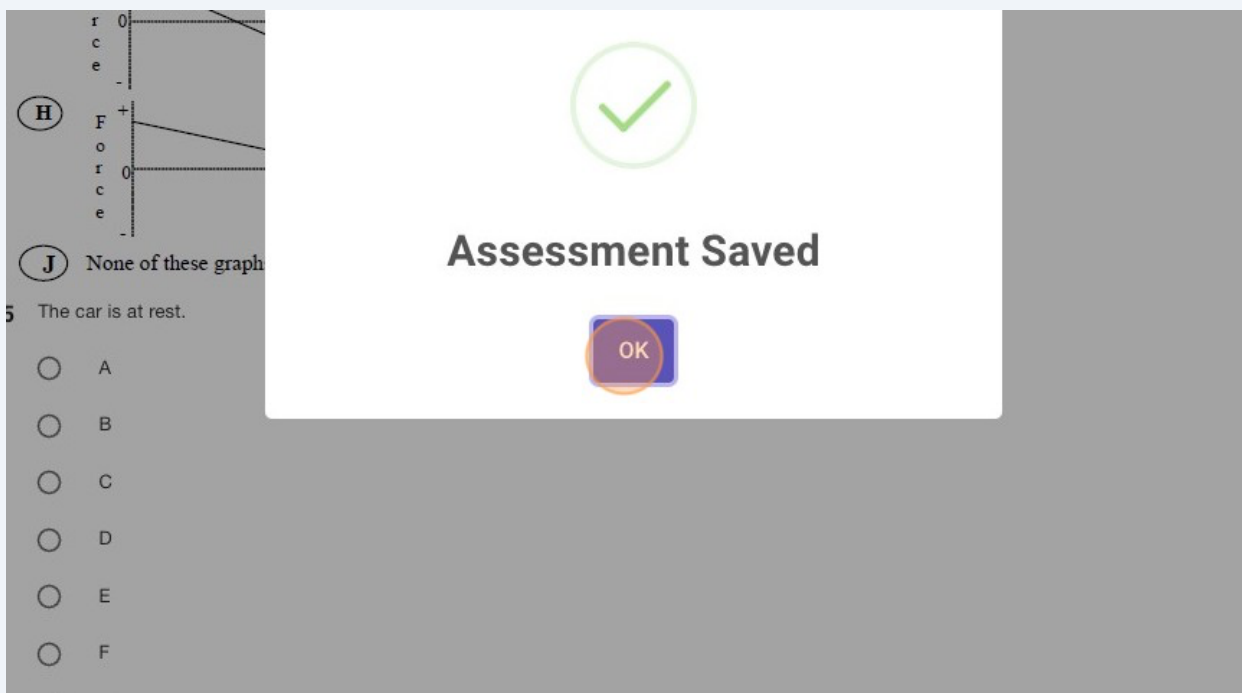
7

A confirmation message will be displayed, click "OK" if you want to save the assessment to complete it later.



8

A confirmation message will be displayed, click "OK" to close the window.



## Resume an assessment.



There are 2 ways to resume an assessment. One way is through the link received by email as explained in step 1. Another way is to follow the instructions in the next steps.

9

To resume a saved assessment, log in into LASSO with your email and password.

The image shows a login interface for a system called 'LASSO'. At the top, the word 'LASSO' is displayed in large white letters on a dark grey background. Below this, the text 'If you already have an account, sign in.' is centered. There are two input fields: 'Email' and 'Password'. The 'Email' field has an orange circle cursor in the middle. The 'Password' field has a small eye icon on the right side to toggle visibility. Below the password field is a link that says 'I need to reset my password'. To the right of the login fields, there is a section titled 'Don't have' followed by text about creating an account and two links: 'Create an instruct' and 'Create a student a'. A 'SIGN IN' button is located at the bottom right of the login area.

**LASSO**

If you already have an account, sign in.

Email

Password

[I need to reset my password](#)

[SIGN IN](#)

**Don't have**

The LASSO website requires you to create an account.

**To create a new account:**

- [Create an instructor account](#)
- [Create a student account](#)

10 Go to the "Assessments" page.

The screenshot shows the LASSO Student Dashboard. The left sidebar has a menu with 'Dashboard' and 'Assessments'. The 'Assessments' link is highlighted with an orange circle. The main content area displays two summary cards: 'Course Count' with the value '1' and 'Assessment Count' with the value '4'. Below these cards is a section titled 'Assessment Administration Status' featuring a large orange donut chart with the number '4' at the bottom.

11 Select the assessment that you want to complete.

The screenshot shows the LASSO Student Assessment page. The page title is 'Student Assessment'. Below the title is a table with columns 'Assessment name' and 'Term'. The table lists two assessments: 'Force Concept Inventory' and 'Force and Motion Conceptual Evaluation', both for the 'Spring' term. An orange circle highlights the text 'and Motion' in the second row.

Assessment name	Term
Force Concept Inventory	Spring
Force and Motion Conceptual Evaluation	Spring

12

Click the "Take Assessment" button for the administration that you want to complete. Go to step 2 and follow the instructions to complete the

year	
2024	
2024	
Assessment status	Take assessment
Not taken	<a href="#">Take Assessment</a>
Not taken	<a href="#">Take Assessment</a>