

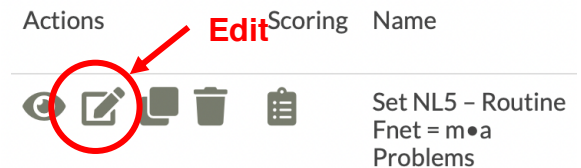
## Modifying a Problem Set

The Calculator Pad was built to be a turnkey solution that provides busy teachers many ready-to-use problem sets on numerous topics. But at the same time, The Calculator Pad was built to be versatile enough to allow teachers to modify those problem sets with ease. Modifications include removing unwanted problems, adding problems from other problem sets, re-ordering problems, customizing the scoring and the number of attempts on selected problems, adding or changing or removing the help functions associated with problems, editing the problems, adding or subtracting parts from problems, and even writing one's own problems for inclusion on the problem sets. The directions below address many of these modifications. The task of Modifying a Problem and Writing Your Own Problem are addressed on other pages. The directions below pertain to how to modify one of our ready-to-use problems sets. The same directions can be used to modify your own problem sets or those of a colleague.

Modifications must be made before your assignment opens. Once students begin solving problems in the problem set, its too late to change those problems or even settings like the number of attempts or the score values.

1. Navigate to and open the problem set you wish to modify. The pathway is ...  
Class → Topic (e.g., CalcPad - Newton's Laws) → Task (e.g., Set NL5)

Tap on the **Edit** button next to the name of the problem set to open the **Task Properties** page for the problem set.



NOTE: If you have not yet assigned the problem set, you will need to do that first. Use our directions on Assigning a Problem Set.

2. If your problem set has already been saved and assigned, a **Launch Assignment** button is present near the top of the **Task Properties** page. Tap on the button to open the assignment in a new tab in the **Assignment Builder**. Each problem in the Assignment Builder has a panel of controls across the top of the problem. The problem also includes a **Show Scoring Customization** button. The "code" of the problem is also shown; random numerals are represented by variable names enclosed in brackets.

A screenshot of a problem card. At the top left, there is a minus sign icon (highlighted with a red circle) and the text '2. NL5Q2'. To the right of this is a box labeled 'Collapse Problem'. At the top right, there is a box labeled 'Editing Controls' containing icons for expand/collapse, edit, add, and subtract. To the right of this is a box labeled 'Total Point Value' with the value '1.11' and an asterisk. Below the top bar, the problem text reads: 'A net force of [F] Newtons will cause a mass of [m]-kg to accelerate at a rate of \_\_\_\_ m/s/s'. Below the text, there are three input fields: 'Acceleration' (with a red circle around the [F]), 'Random #' (with a red circle around the [m]), and 'm/s/s'. To the right of these fields is a blue button labeled 'Show Scoring Customization\*'.

Tapping on an Editing Control will perform an action, as described below.

## Control Description of Action

### Reorder Buttons



There are two buttons here – an **Up** and the **Down** button. The Up and Down buttons allow you to move a problem upward or downward within the problem set. All movements are reversible. Moving a problem does not change the name of the problem.



### Edit Button

The **Edit** button allows you to edit the problem. One tapped, the problem opens in the Problem Builder. You are given the notice ...

You are not the owner of this problem. You may only edit help text and help links. Clone this problem if you would like to edit your own copy.

Save Problem

Back to Assignment Builder

Clone Problem

Preview Problem

You can scroll through the problem and view its “code” and its answer parts. You are allowed to add or even change the contents of a Help field associated with the problem. For instance, you could add the text “Give attention to the units” or “See Example 3 on page 13 of your Unit Packet” or “Do well on this problem and you’re going to ACE the test.” You can also change, remove or add to the Help links provided for the problem. For instance, you can add a link to a YouTube video that you have made. Once you’ve made your edits, tap on the **Save Problem** button at the top of the Problem Builder.

Help Text:

Help Text

Links:

- + Add - Remove  
Link Type:  Video  Audio  Web
- + Add - Remove  
Link Type:  Video  Audio  Web
- + Add - Remove  
Link Type:  Video  Audio  Web

If you wish to make more *drastic* changes, you are offered the option to **Clone Problem**. When you clone a problem, a copy of it is stored in your personal Problem Library. You will be able to edit the problem right there in the Problem Builder. The edited version becomes part of

the problem set. The task of editing a problem is discussed on our [Modifying a Problem](#) page.



### Duplicate Button

The **Duplicate** button will make a *second instance* of the problem and place it as the next problem in the problem set. The duplicate will be the very same problem. Students will see two identically-worded problems with different numerical values.



### Add/Remove Buttons

The **Remove** button will remove a problem from a problem set. The **Add** button allows you to add a problem to a problem set. The problem can be one of our *Public* problems, a problem you have written, or even a new problem that you create.

Are you sure? ×

---

Do you want to add a blank problem, select an already existing one, or add this problem another time?

---

Cancel Create Blank Problem Select Existing Problem Add This Problem Again

The **Create Blank Problem** button will open the Problem Builder so that you can write your own problem. The **Select Existing Problem** opens a Search window from which you can search for an existing problem.

Back

**Text or ID**

**Problem Owner**  
 | ▾

**Topics**  
 | ▾

**Tags**  
 | ▾

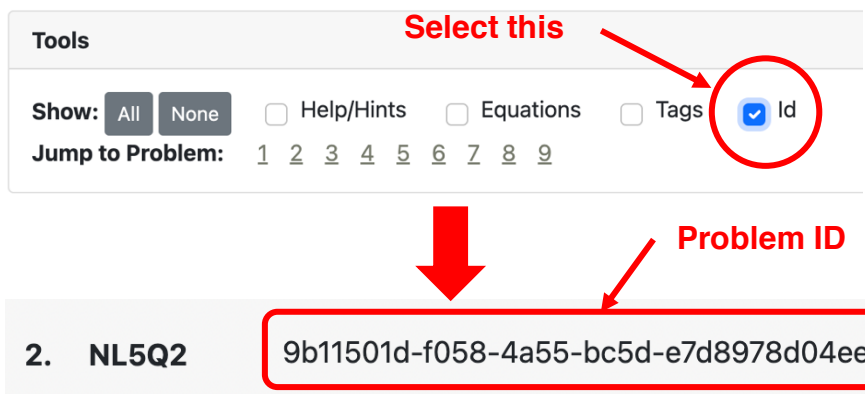
**Difficulty**

Very Easy     Easy     Medium     Hard     Very Hard

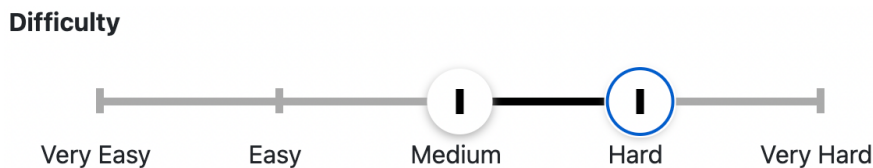
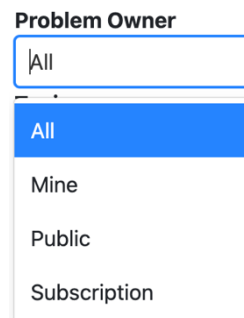
Search

The easiest way to find a problem is to search by its ID or its text using the **Text or ID** search field. Tap the **Search** button. We will find the problem for you and display it with a **Select Problem** button. The ID of a problem is listed with the problem in the Assignment Builder. In the **Tools** panel at the top of the Assignment Builder, select **ID** in order to display the ID for each problem. It is listed in the grey field at the top of

the problem (as shown). You can use any Problem ID present in our system, including an ID associated with a problem owned by a colleague.



You can also search for problems using the topic or using a tag. A topic can be selected from the **Topics** pull-down menu. Tags can be typed into the **Tags** field. As you type the name of a tag from a limited number of options, we will begin to narrow the options down; select the tag you wish. (We publish a list of search tags to facilitate this task.) There are two search restrictions that can be used to narrow your search. You can restrict the returned search results by **Problem Owner**. Public problems are those that The Physics Classroom has created (>1500 problems). You can narrow the search to problems that you or those in your Group Subscription have written. You can also narrow the search by restricting it to problems that have a specific difficulty rating or range of difficulty ratings.



- The Assignment Builder allows you to customize the scoring and the number of attempts for individual problems within the problem set. The **Assignment Configuration** panel at the top of the Assignment Builder is used to set default values for individual problems and their parts. These default values can be overridden on a per problem part basis using the customization Assignment. Tap on the **Show Scoring Customization** button to display the the customization controls. As shown below, you can customize the number of points for each problem part.

You can also customize the number of allowed attempts, the number of unpenalized attempts, and the penalty percentage for each penalized attempts. Finally, you can customize the error allowance for any problem part. These settings are discussed in detail in our **Assigning a Problem Set** page. Changing any of these settings using the customization controls only changes them for the given part. The default settings are not affected. Be sure to tap on **Save Assignment** when you are done making changes.

2. NL5Q2

Total Point Value  
 \*

A net force of [F] Newtons will cause a mass of [m]-kg to accelerate at a rate of \_\_\_\_ m/s/s

Acceleration

m/s/s

Hide Scoring Customization\*

Points

 \*

Max Attempts

Unpenalized Attempts

Penalty %

Error Allowance

% ▾

4. The modifications that you made to your problem set were made in the Assignment Builder. It was originally opened in a separate browser tab using the **Launch Assignment** button on the Task Properties page. Save your assignment. Close the browser tab. Return to the Task Properties page.