
AMSCO®

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AMSCO® Math Digital Teacher Manual ***Algebra 1, Geometry & Algebra 2*** **User Manual**

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AMSCO® Math Digital Teacher Manual

Algebra 1, Geometry & Algebra 2

User Manual

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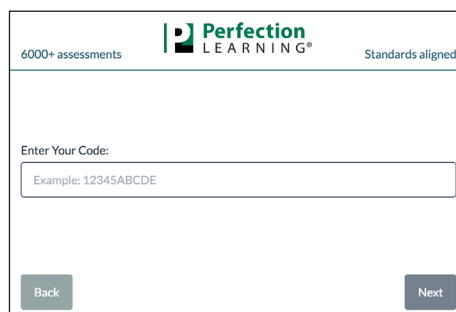
Getting Started

Login and Registration

Enter <http://ohw.kineticmath.com/> into your browser window.

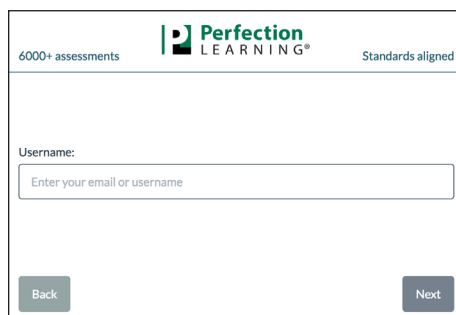
*If you do not have an existing digital user account, click the **Use a code** button.*

- Enter the registration code provided to you, and follow the on-screen instructions to create your account by entering your email, name, and creating a password.

The screenshot shows the Perfection Learning registration interface. At the top, it says "6000+ assessments" and "Standards aligned". The main heading is "Perfection LEARNING®". Below this, it says "Enter Your Code:" followed by a text input field with the placeholder text "Example: 12345ABCDE". At the bottom, there are two buttons: "Back" on the left and "Next" on the right.

*If you already have an existing digital user account, click the **Sign in** button.*

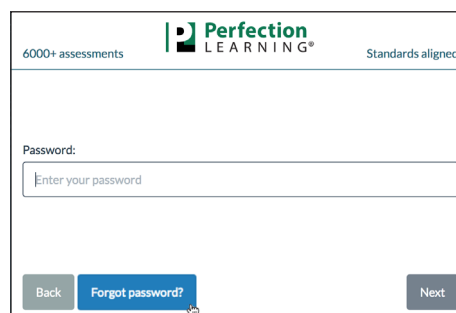
- Follow the on-screen instructions to enter your email and password.

The screenshot shows the Perfection Learning login interface. At the top, it says "6000+ assessments" and "Standards aligned". The main heading is "Perfection LEARNING®". Below this, it says "Username:" followed by a text input field with the placeholder text "Enter your email or username". At the bottom, there are two buttons: "Back" on the left and "Next" on the right.


Forgotten Password

*If you have forgotten your user account password, click the **Sign in** button and then enter your username. Next, on the password entry screen, click the **Forgot Password?** button.*

- Follow the on-screen instructions to receive an email with a link to reset your password. Check your spam folder if you do not receive this email. Click the link in the email and create a new password. You will now be able to log in to your account.

The screenshot shows the Perfection Learning password reset interface. At the top, it says "6000+ assessments" and "Standards aligned". The main heading is "Perfection LEARNING®". Below this, it says "Password:" followed by a text input field with the placeholder text "Enter your password". At the bottom, there are three buttons: "Back" on the left, "Forgot password?" in the center, and "Next" on the right.

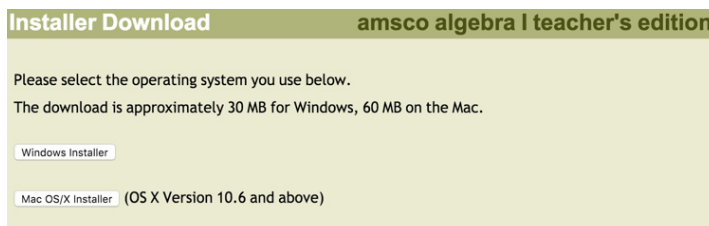
Logout

To manually exit AMSCO® Math, click on the Navigation Menu , then select **Logout** from the dropdown menu.

If you have not interacted with the application for a period of one hour, you will be automatically logged out and returned to the login page. Ten seconds before auto-logout is due to occur, a warning message will appear in the browser window with a clickable button to allow you to remain logged in.

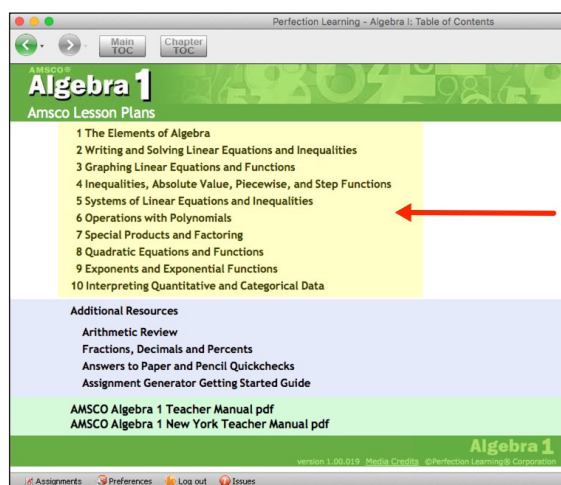
Installation of Book

1. Go to the installer link found in the digital access instructions email sent to you by Perfection Learning.
2. Download the installer. Be sure to select the correct version for your computer.
3. Once the product is downloaded, run the program to install it on your computer.

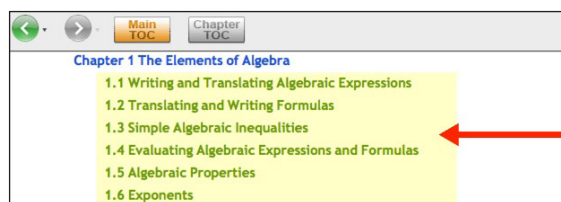


General Book Use

1. In the installed book, click on any chapter to see the lesson plans.



2. Click on any lesson within the chapter.



3. Once inside a lesson, you can click on any of the blue hyperlinks to access the digital content.

1.6 Exponents

Videos: Exponents 1, Order of Operations, Exponents, Negative numbers, & Variables, An Interesting question, Exponents 2, Products of Powers, Quotient of Powers, Negative Exponents, Zero as an Exponent, Negative Exponents and Rules of Exponents, Negative Exponents in the Denominator, Power of Products, Power of Quotients

Objectives

1. Use exponents and state them in words.
2. Use exponents and order of operations together.
3. Review exponential notation.
4. Solve multiplication and division problems involving exponents.
5. Use negative exponents.
6. Use zero as an exponent.
7. Use the power of products rule and the power of quotients rule.

Lesson

1. Discuss the meaning and purpose of an exponent.
2. Have students practice using exponents with the activity and Quickchecks.

Assignments Preferences Log out Issues

Exponents

Exponent: n is the exponent in the exponential expression x^n . It means take n instances of x and multiply them together.

Exponents let us write expressions such as $2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$ more simply. The product above has ten "twos" multiplied together. You can write this as 2^{10} . This means you take the factor 2 and multiply 10 instances of the number.

The expression x^n (such as 5^3) is called a **power**. x is called the **base**, and n is called the **exponent**. With the power 2^{10} , 2 is the base and 10 is the exponent. The expression x^n is stated as " x to the n th power." For instance, 7^5 is stated as "seven to the fifth power." When you write it as a product, like $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$, you are using the **factored form** because there are five factors of 7 multiplied together.

Concept

| Exponents | What does 7^3 mean? |
|---|-----------------------------------|
| $x^n = \underbrace{x \cdot x \cdot \dots \cdot x}_x \text{ appears } n \text{ times}$ | $7^3 = 7 \cdot 7 \cdot 7 \cdot 7$ |
| x^n is a power | 7^3 is a power |

NOTE: Implementation strategies are outlined in the Teacher Manual (see page xvi).

Digital Support

The AMSCO *Algebra 1* Digital Teacher's Edition includes a wealth of digital teacher resources to support, reteach, extend, and enhance concepts.

Teacher Manual

The Lesson Planning Chart in this Teacher Manual is duplicated in the AMSCO *Algebra 1* Digital Teacher's Edition with links to all resources. For more information on the AMSCO *Algebra 1* Digital Teacher's Edition, please contact Perfection Learning's Customer Service at 800-831-4190.

| Lesson | Student Edition | Standards | Digital Lesson |
|---|-----------------|-------------------|----------------|
| 4.1 Graphing Linear Inequalities | pp. 145-150 | A-CED.3; A-REI.12 | Lesson 4.1 |
| 4.2 Absolute Value Inequalities and Graphing on the Number Line | pp. 150-153 | A-CED.3; A-REI.3 | Lesson 4.2 |

Digital Lesson Plans

Digital lesson plans provide interactive resources, such as videos, activities, whiteboards, application problems, and assessments, that allow for differentiated instruction of the concepts taught in *Algebra 1*.

- 1 Access videos that highlight concepts within the lesson.
- 2 Key learning objectives are outlined.
- 3 Lessons include animated whiteboards; activities that provide hands-on math experiences with real-world, contextual applications; and automatically scored quickchecks for fast, formative assessment.
- 4 Performance tasks allow additional methods for students to demonstrate their conceptual understanding.
- 5 Pre-made, editable assignments provide additional practice for students.

4.2 Absolute Value Inequalities and Graphing on the Number Line

Videos: Inequalities with Absolute Values

Objectives

1. Solve inequalities involving absolute value.

Lesson

1. Review the meaning of absolute value and have students sketch the graphs of several absolute value inequalities. Discuss how an absolute value can be represented as either a conjunction or a disjunction. If the absolute value of an unknown is less than a given value, it can be rewritten as a conjunction. If the absolute value of the unknown is greater than a given value, it must be represented as a disjunction.
2. Practice writing compound inequalities for absolute values with the Quickchecks.
3. Demonstrate how to solve an absolute value inequality by working through the Sample problem: Solving absolute value inequalities.
4. Check student understanding of absolute value inequalities using the Quickchecks.

Performance Task

1. In the Application: Manufacturing a key, students can see a practical use for absolute value inequalities, and check their understanding with the Quickcheck.
2. Use the activities in the conjunctions of inequalities activity and the disjunctions of inequalities activity to compare and contrast graphing conjunctions and disjunctions to graphing absolute value inequalities on the number line.

Practice/Assessment

Assignment Generator

xvi Digital Support

Accessing AMSCO® Math Assignments

1. If you have already registered for AMSCO® Math, go to <http://ohw.kineticmath.com/>, click “Sign in,” and sign in to the product.

Or, from the installed book click on the **Assignments** button in the task bar at the bottom of the digital Teacher Manual.

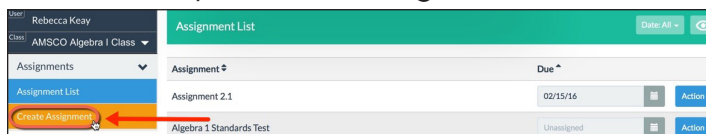


2. A new window will open in your default browser, taking you to a page with your Assignment List. Here you will be able to access pre-generated template assignments and create your own assignments.



Creating Printable Assignments

From the Assignment List page in Assignments, select **Create Assignment** from the left-hand side of the page. This will take you to the Assignment Generator.



Assignment Details

A screenshot of the AMSCO® Assignment Generator page. The page title is 'Assignment Generator'. There are tabs for 'Details', 'Select', 'Edit', 'Print', and 'Done'. The 'Details' tab is active. The form has fields for '*Assignment Name:' (containing 'Assignment 2.1'), '*Category:' (a dropdown menu with 'Homework' selected), and 'Notes:'. At the bottom, it says 'Standards: You have not added problems to this assignment. Add problems to the assignment to see which standards are met by this assignment.'

You must name the assignment and choose the type of assignment before selecting questions.

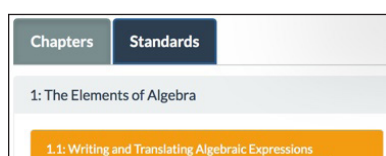
1. Type in the name of the assignment you wish to create in the Assignment Name field.
2. Choose the type of assignment you are creating—Homework, Quiz, Test, or, if you want to preview Math^x features, choose i-Practice.
3. You can also write notes about the assignment here.
4. After you add problems to the assignment, standards correlated to the assignment will appear on this page.

Selecting Problems

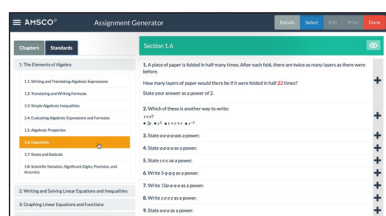
1. Click on the **Select** button at the top of the page.
2. Here you can find questions to add to your assignment in two different ways—by **chapter** or by **standard**. Questions with red text indicate problems with numbers that can vary, allowing you to add multiple instances of such problems.

Adding Questions by Chapters

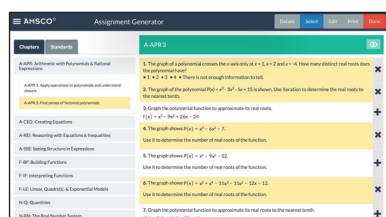
1. Click on the **Chapters** tab on the left-hand side of the page.
2. Click on the chapter you are accessing.
3. Click the particular lesson from which you want to get questions.



4. You will now see questions related to the lesson.



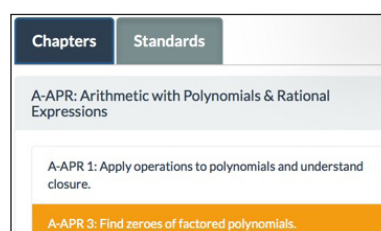
5. Click on the problems you want to add to the assignment. The questions will be highlighted in yellow. If you want to remove a question from the assignment, click it again. It will unhighlight and be removed. You can choose problems from different lessons and chapters to add to the same assignment. The program will automatically save your progress.



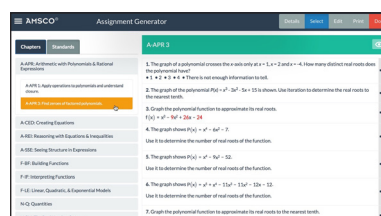
6. Click **Done** in the upper right-hand corner when you are finished creating an assignment. Your new assignment is now accessible from the Assignment List.

Adding Questions by Standards

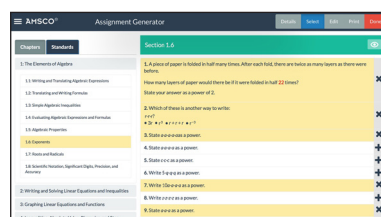
1. Click on the **Standards** tab on the left-hand side of the page.
2. Click the domain from which you want to pull questions.
3. Click the specific standard from which you want to get questions.



4. You will now see questions related to the standard.



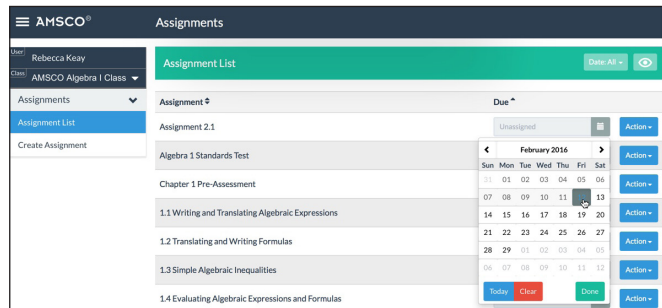
5. Click on the problems you want to add to the assignment. The questions will be highlighted in yellow. Questions can be removed from the assignment by clicking them again. You can add questions from different standards to the same assignment. The program will automatically save your progress.



6. Click **Done** in the upper right-hand corner when you are finished creating an assignment. Your new assignment is now accessible from the Assignment List.

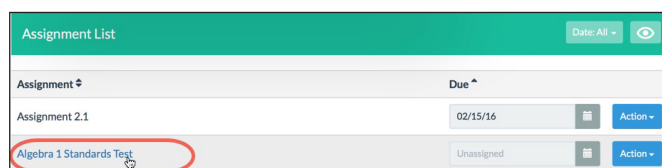
Assigning a Due Date

Assign a due date for your assignment by clicking on the calendar icon button from the **Assignment List**. Select the date that the assignment is due.

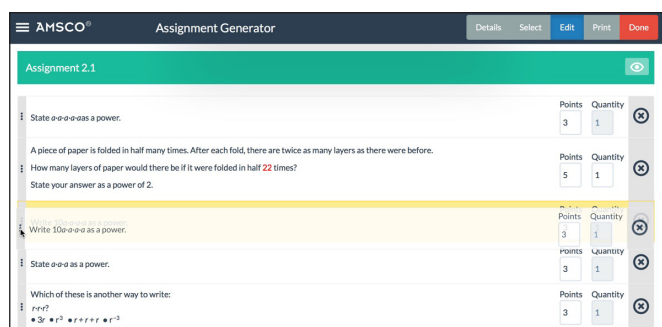


Editing Assignments

1. Click on the assignment name or the **Action** button next to the assignment you want to edit and then select **Edit**.




2. You will be able to view the problems already in your assignment and edit in a couple of different ways.
3. You can change the order of the questions by clicking and dragging on the three dots to the left of the question.



4. You can change how many points a problem is worth by changing the number in the **Points** field to the right of the problem.

NOTE: Changing point values is not necessary for assignments since they are not automatically graded, but this will be useful in Math^x.

5. Questions with red text have numbers that can vary. Determine the number of instances of the problem you want by changing the number in the **Quantity** field.

6. You can remove a problem from the assignment by clicking on the  icon to the right of the question.

Previewing Assignments

1. From the Assignment List page, click the Action button next to the assignment you want to preview, then select **Print**.

The screenshot shows the 'Assignment Generator' interface. At the top, there are tabs for 'Print Assignment', 'Print Answers', and 'Show Answers'. Below these are input fields for 'Name:', 'Class:', and 'Date:'. The main content area is titled 'Assignment 2.1' and contains five numbered problems. Problem 1 asks to state $a^2 + a^2 + a^2$ as a power. Problem 2 describes a paper being folded in half 22 times and asks for the number of layers as a power of 2. Problem 3 asks to write $10a^2 + a^2$ as a power. Problem 4 asks to state $a^2 + a^2$ as a power. Problem 5 asks for another way to write a given expression.

2. On the print page you can view what your assignment will look like when it is printed. You can also view the solutions to the problems by clicking on the **Show Answers** button at the top of the assignment.

Printing Assignments/Answers

1. From the Assignment List page, click the Action button next to the assignment you want to preview, then select **Print**.

The screenshot shows a table with the following rows: 'Chapter 1 Test', 'Chapter 2 Pre-Assessment', '2.1 Solving Linear Equations', and '2.2 Solving for a Variable in Literal Equations'. Each row has an 'Unassigned' status and an 'Action' button. A dropdown menu is open for the '2.1 Solving Linear Equations' row, showing options: 'Edit', 'Print', 'Preview Math', and 'Reset'. The 'Print' option is highlighted.

2. On the print page, click **Print Assignment**.
3. A print preview page will open in a new tab, along with a prompt to print. Select the number of copies you wish to make and click **Print**.

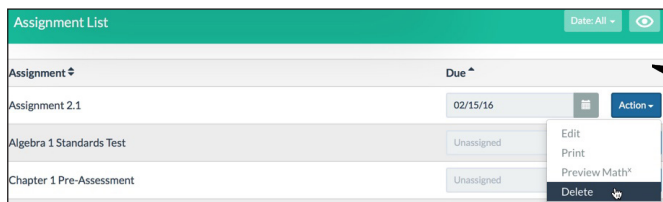
NOTE: This step is dependent on the browser and printer that you use.

The screenshot shows a print preview window for 'Assignment 2.1'. It includes a preview of the assignment content on the left and a print settings panel on the right. The settings panel includes fields for 'Printer' (HP Officejet Pro 8610), 'Presets' (Default Settings), 'Copies' (1), 'Pages' (All), 'Paper Size' (US Letter), 'Orientation' (Portrait), and 'Scale' (100%). There are checkboxes for 'Print backgrounds' and 'Print headers and footers'. At the bottom are 'Cancel' and 'Print' buttons.

To print answers, follow the same steps as printing the assignment, but instead of initially clicking **Print Assignment**, click **Print Answers**.

Deleting Assignments

1. To delete an assignment that you have created, navigate to your Assignment List. Click the **Action** button to the right of the assignment, then click **Delete** from the dropdown.



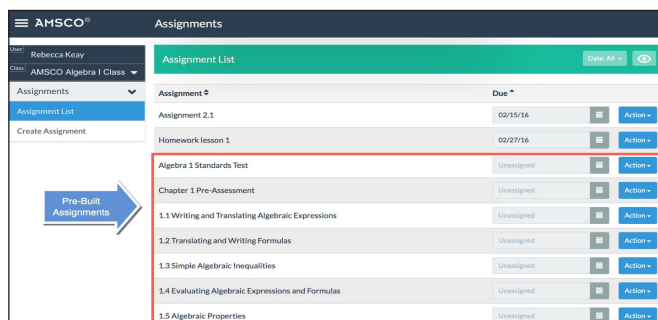
| Assignment # | Due | |
|--------------------------|------------|--|
| Assignment 2.1 | 02/15/16 | Action |
| Algebra 1 Standards Test | Unassigned | Edit Print Preview Math [®] Delete |
| Chapter 1 Pre-Assessment | Unassigned | |

You can only delete assignments that you have created. Pre-built assignments cannot be deleted.

2. A pop up will appear asking you confirm the deletion. Click **Delete**.

Accessing and Editing Pre-Built Assignments

You will notice that when you first access Assignments, there are already assignments and tests in your Assignment List. You can select, edit, and print these pre-built assignments in the same way as the other assignments you created.



| Assignment # | Due | |
|---|------------|--------|
| Assignment 2.1 | 02/15/16 | Action |
| Homework lesson 1 | 02/27/16 | Action |
| Algebra 1 Standards Test | Unassigned | Action |
| Chapter 1 Pre-Assessment | Unassigned | Action |
| 1.1 Writing and Translating Algebraic Expressions | Unassigned | Action |
| 1.2 Translating and Writing Formulas | Unassigned | Action |
| 1.3 Simple Algebraic Inequalities | Unassigned | Action |
| 1.4 Evaluating Algebraic Expressions and Formulas | Unassigned | Action |
| 1.5 Algebraic Properties | Unassigned | Action |

Resetting Assignments

1. From the Assignment List page, click the **Action** button next to the pre-built assignment you want to reset, then select **Reset**.

NOTE: Only pre-built assignments can be reset. You cannot reset assignments that you have created. If you have edited a pre-built assignment by adding, removing or rearranging problems, or adding a due date, resetting an assignment will erase all of your changes.

2. A pop up will appear asking you confirm the reset. Click **Reset**.

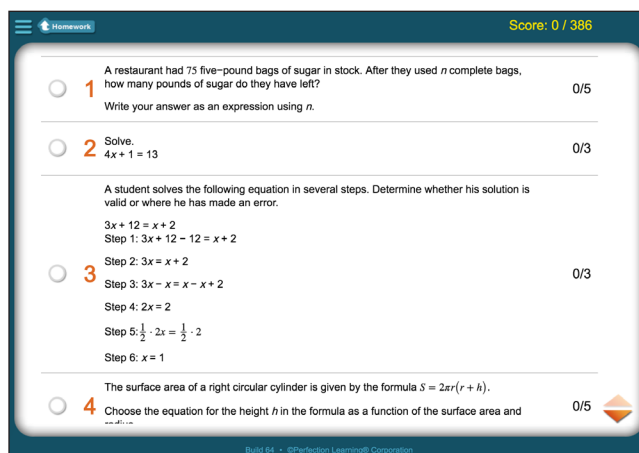
Previewing Math^x

Preview Math^x allows you to see what an assignment would look like from a student's point of view.

1. To preview Math^x, click on the **Action** button next to the assignment you would like to preview and select **Preview Math^x**.



2. A page will open where you can view the assignment as a student using Math^x would.



Settings

The Settings module allows you to update details about your account. To access this module, click on the Navigation Menu , then select **Settings** from the dropdown.

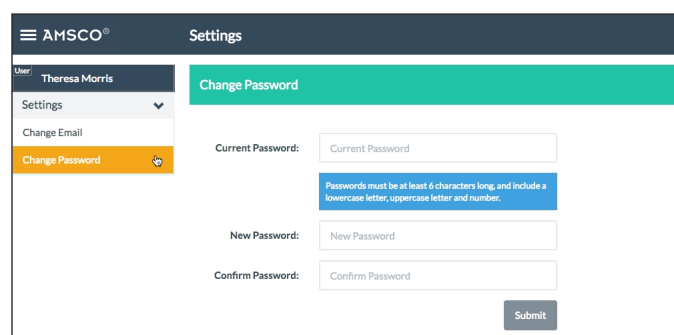
Changing Email

1. To change the email associated with your user account, select **Change Email** from the Settings menu on the left-hand side of the page.
2. Enter your desired new email address.
3. Confirm by re-entering the desired email.
4. Enter your current password.
5. Click the **Submit** button.

A screenshot of the 'Settings' page in the AMSCO system. The left sidebar shows a menu with 'User: Theresa Morris', 'Settings' (selected), 'Change Email' (highlighted), and 'Change Password'. The main content area is titled 'Change Email' and contains three input fields: 'New Email:' with a placeholder 'New email', 'Confirm Email:' with a placeholder 'Retype email', and 'Password:' with a placeholder 'Password'. A 'Submit' button is at the bottom right.


Changing Password

1. To change the password associated with your user account, select **Change Password** from the Settings menu on the left-hand side of the page.
2. Enter your current password.
3. Enter your desired new password.
4. Confirm by re-entering the desired password.
5. Click the **Submit** button.



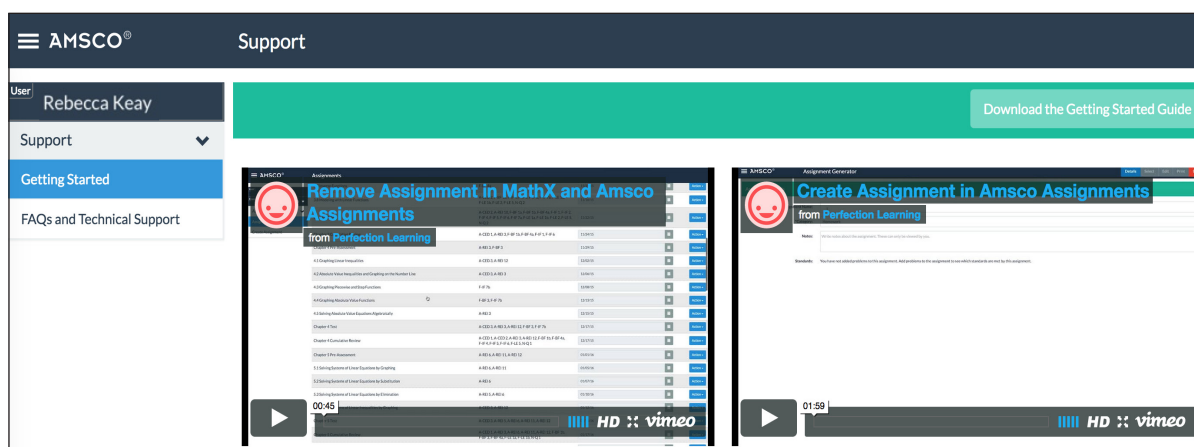
The screenshot shows the AMSCO Settings page for user Theresa Morris. The left sidebar has a dropdown menu with 'Settings' selected, and 'Change Password' is highlighted. The main content area is titled 'Change Password' and contains three input fields: 'Current Password', 'New Password', and 'Confirm Password'. A blue tooltip message states: 'Passwords must be at least 6 characters long, and include a lowercase letter, uppercase letter and number.' A 'Submit' button is located at the bottom right of the form.

Support

The Support module allows you to access additional information for help using AMSCO® Math To access this module, click on the Navigation Menu  , then select **Support** from the dropdown menu.

Getting Started Videos

To watch videos to help you get started using AMSCO® Math, select the **Getting Started** option from the Support menu on the left-hand side of the page.



The screenshot shows the AMSCO Support page for user Rebecca Key. The left sidebar has a dropdown menu with 'Support' selected, and 'Getting Started' is highlighted. The main content area features two video thumbnails. The first video is titled 'Remove Assignment in MathX and Amsco Assignments from Perfection Learning' and has a duration of 00:45. The second video is titled 'Create Assignment in Amsco Assignments from Perfection Learning' and has a duration of 01:59. Both videos are from Vimeo and are in HD quality.

FAQs and Technical Support Pages

To access a web page with frequently asked questions, downloadable user guides, additional technical support, and contact information, select the **FAQs and Technical Support** option from the Support menu on the left-hand side of the page.