

# Shared Instructor and Student Functionality

Last Modified on 08/30/2023 3:33 pm EDT

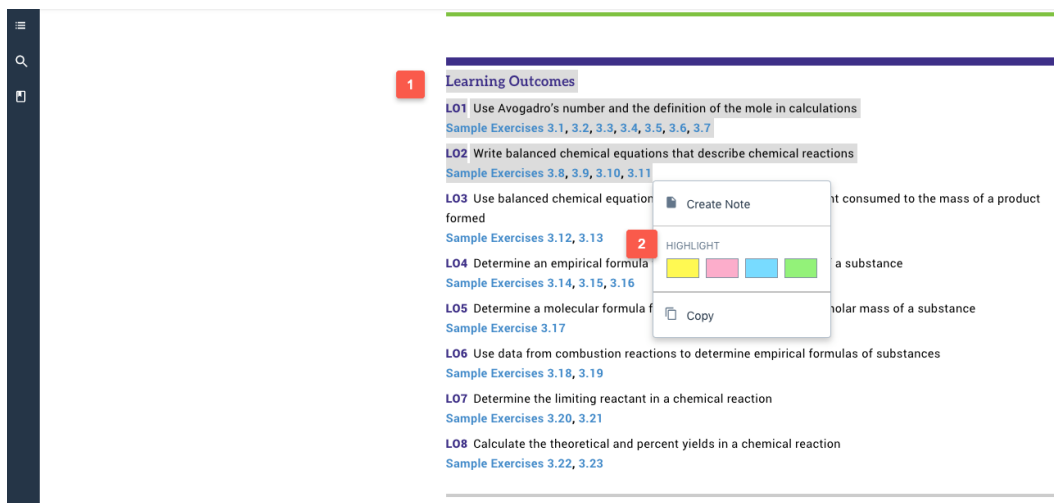
The Norton Ebook Reader has functionality that is common to both instructors and students. This page details the highlighting, annotation, bookmarking, audio narration, and printing and copying capabilities that are available to both instructors and students.

Hide All Answers

## How do I highlight text?

### Personal Highlights

To highlight text, use the cursor to select the text you would like to highlight and the **Context Menu** will appear. Select the color in which you would like the text highlighted: yellow, pink, blue, or green.



The screenshot displays a vertical sidebar on the left with icons for a menu, search, and a document. The main content area shows a list of Learning Outcomes (LO1-LO8) under the heading "Learning Outcomes". A red box with the number "1" is positioned to the left of the "Learning Outcomes" heading. A red box with the number "2" is positioned to the left of the "HIGHLIGHT" option in the context menu. The context menu is open over the text "Determine an empirical formula" in LO4. The "HIGHLIGHT" option shows four color selection buttons: yellow, pink, blue, and green. The "Copy" option is also visible. The text "LO1 Use Avogadro's number and the definition of the mole in calculations" is highlighted in yellow in the background.

### Removing Highlights

To remove a highlight, use the cursor to select the text from which you would like to remove the highlighting and the **Context Menu** will appear.

Click **Delete Highlight**

6: Properties of Gases: The Air We Breathe

Notebook

Classify the products as elements, compounds, or a mixture.  
(Review Sections 1.1, 1.2, and 3.3 if you need help.)

SHOW ANSWER

1 Learning Outcomes

LO1 Distinguish gases from liquids and solids

LO2 Measure pressure and convert it to standard units to quantify it

Sample Exercises 6.1, 6.2

LO3 Calculate changes in the volume of a gas using the ideal gas law, the number of moles of a gas by using the ideal gas law, and the number of moles of a gas by using the ideal gas law

Sample Exercises 6.3, 6.4, 6.5, 6.6

LO4 Use balanced chemical equations to determine the amount of a product by using the stoichiometric coefficients and the amount of a reactant as a phase reactant to the amount of a product as law

Sample Exercises 6.8, 6.9

LO5 Calculate the density and molar mass of a gas

Sample Exercises 6.10, 6.11

LO6 Determine the mole fraction of a gas in a mixture

Sample Exercises 6.12, 6.13, 6.14

LO7 Use kinetic molecular theory to explain the behavior of gases

Select **Delete** and the highlighting will be removed from the selected text.

Delete Highlight

Are you sure you want to delete this **highlight**?

This action cannot be undone.

Cancel Delete

**Please note:** Instructor shared highlights are no longer available in the New Ebook Reader since the green highlighter is now accessible to all users in the new Ebook. The new [Instructor Content](#) functionality allows instructors to create, edit, and publish shareable content with students.

## How do I create annotations?

### Personal Annotations

To create an annotation that will only appear in your ebook, use the cursor to select the text you would like to annotate and the **Context Menu** will appear.

Click **Create Note**

Chemistry student123@mailinator.com Page 274

6: Properties of Gases: The Air We Br... > 6.1 Air: An Invisible Necessity

anesthesiologists in a hospital operating room constantly monitor levels of oxygen and carbon dioxide in the blood. The management of the delicate balance of gases entering and leaving a patient can mean the difference between a normal recovery and an irreversible coma.

We have seen how dissolved compounds react in aqueous solution. Chemical reactions also take place in the gas phase, and gases are intimately involved in chemical reactions in living systems as well as in the material world. Most life in our biosphere requires oxygen. Insects, birds, mammals, plants, and even underwater organisms need  $O_2$  to metabolize nutrients.

1 How do gases differ from solids and liquids? Gases have neither definite volumes nor definite shapes; they expand to occupy the entire volume of their container and assume the container's shape. Under everyday conditions, other properties also distinguish gases from liquids and solids:

1. Unlike the volume occupied by a liquid or solid, the volume occupied by a gas changes significantly with pressure. If we carry an inflated balloon from sea level (0 m) to the top of a 1600-m mountain, the balloon volume increases by about 20%. The volume of a liquid or solid is unchanged under these conditions.
2. The volume of a gas changes with temperature. For example, the volume of a balloon filled with room-temperature air decreases when the balloon is taken outside on a cold winter's day. A temperature decrease from 20°C to 0°C leads to a volume decrease of about 7%, whereas the volume of a liquid or solid remains practically unchanged by this modest temperature change.
3. Gases are **miscible**, which means they can be mixed in any proportion (unless they chemically

Type your annotation into the text field and click the **Save** button save your annotation.

Chemistry student123@mailinator.com Page 274

6: Properties of Gases: The Air We Br... > 6.1 Air: An Invisible Necessity

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Click on the **Notebook page icon** to view notes in the Notebook

Chemistry student123@mailinator.com Page 274

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4. Gases are typically much less dense than liquids or solids. One indicator of this large difference is that gas densities are expressed in grams per liter but liquid densities are expressed in grams per milliliter. The density of dry air at 20°C at typical atmospheric pressure is 1.20 g/L, for example, whereas the density of liquid water under the same conditions is 1.00 g/mL—more than 800 times greater than the density of dry air.

These four observations about gases are consistent with the idea that the particles of a gas (be they molecules or atoms) are further apart than the particles in solids and liquids. The larger

## How to Edit Annotations

Click the **notebook page icon**. The **Context Menu** will appear. Select **Edit Note**

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6: Properties of Gases: The Air We Br... > 6.1 Air: An Invisible Necessity Page 274

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After editing the note, select **Save**.

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1. Select the **notebook page icon** on the annotation that you want to delete
2. Click **Delete Highlight & Note**

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How do gases differ from solids and liquids? Gases have neither definite volumes nor definite shapes; they expand to occupy the entire volume of their container and assume the container's shape. Under everyday conditions, other properties also distinguish gases from liquids and solids:

- 1. Unlike liquids and solids, gases do not have a definite shape or volume.
- 2. The volume of a gas changes with temperature. For example, the volume of a balloon filled with air at sea level (0 m) and 20°C increases by about 20% when the balloon is taken outside on a cold winter's day. At 0°C, the volume of the balloon is practically unchanged by this modest temperature change.
- 3. Gases can be mixed in any proportion (unless they chemically react). For example, a patient experiencing respiratory difficulties may be given a mixture of gases in which the proportion of oxygen is much higher than its proportion in air. Alternatively, a scuba diver may leave the ocean surface with a tank of air containing a homogeneous mixture of 17% oxygen, 34% nitrogen, and 49% helium. In contrast, many liquids are immiscible, such as oil and water.

Click the **Delete** button to confirm

**Delete Highlight and Note** ✕

Are you sure you want to delete this **highlight and note**?

This action cannot be undone.

To view a complete list of the highlights and annotations in your ebook, select the **Notebook icon** on the left of the page

Chemistry

1: Particles of Matter: Measurement and the Tools of Science

Page 2

↑ Previous:

# 1

## Particles of Matter

Measurement and the Tools of Science

Chemistry

1: Particles of Matter: Measurement and the Tools of Science

↑ Previous:

# 1

## Particles of Matter

Measurement and the Tools

1. This is the **total number** of notes and highlights
2. To **Edit** or **Delete** content select the 3 dots icon above the annotation or highlight
3. Annotations that you have created can be found under the highlights
4. Click on the **section title** to go directly to the page where an annotation or highlight is located.

The screenshot shows the ChemTours interface. On the left is a sidebar with an 'Edit note' section containing 15 notes and highlights. Below this is a 'List of ChemTours' section with a red '4' badge and a context menu with 'Edit' and 'Delete' options. The main content area is titled 'Chemistry' and 'List of ChemTours', with a 'Previous: List of Applications' link. A teal banner at the top of the main area contains the 'ChemTours' logo. Below the banner is a list of topics: Dimensional Analysis, Significant Figures, Scientific Notation, Temperature Conversion, Cathode-Ray Tube, Millikan Oil-Drop Experiment, Rutherford Experiment, NaCl Reaction, Synthesis of Elements, and Avogadro's Number.

## Can I search my ebook for specific terms or page numbers?

### Searching the Ebook

To search the text, select the magnifying glass from the left-hand side of the screen.

The screenshot shows the ChemTours interface with a search icon highlighted in the sidebar. The main content area displays the title '3: Stoichiometry: Mass, Formulas, and Reactions' and a large image of two people in winter gear sitting on a snowy field with a large fire burning between them. The page number '82' is visible in the top right corner.

Enter a term in the search field.



Chemistry

3: Stoichiometry: Mass, Formulas, and Reactions

Search

Atoms

Type in the field above to search the book

3

## Stoichiometry

Mass, Formulas, and Reactions

See the full book search results displayed below.

Chemistry

3: Stoichiometry: Mass, Formulas, and Reactions

Search

Atoms

Cancel Search X

Brief Contents

1: Particles of Matter: Measurement and the Tools of Science

Questions and Problems

"...heterogeneous. (Section 1.2) LO2 All matter consists of **atoms**, and we use chemical formulas consisting of atomic..."

2: Atoms, Ions, and Molecules: Matter Starts Here

Questions and Problems

"...of atomic structure. (Sections 2.1 and 2.2) LO2 **Atoms** consist of a nucleus containing protons and neutrons..."

3: Stoichiometry: Mass, Formulas, and Reactions

Questions and Problems

"...in a balanced chemical equation, the number of **atoms** of each element is the same on the reactant side..."

4: Reactions in Solution: Aqueous

0 results in this section

3

## Stoichiometry

Mass, Formulas, and Reactions

Clicking on the search results will take you to that specific page in the ebook. Additionally, the keyword you entered will appear highlighted in the text, and you will see a note at the top of the page indicating how many times that word is used within the section.

Chemistry

1: Particles of Matter: Measurement and the Tools of Science

Search

Atoms

Cancel Search X

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3: Stoichiometry: Mass, Formulas, and Reactions

Questions and Problems

"...in a balanced chemical equation, the number of **atoms** of each element is the same on the reactant side..."

4: Reactions in Solution: Aqueous

0 of 6 results in this section

ANCIENT UNIVERSE The colors of the more than 10,000 galaxies in this image give us a glimpse into the universe as it existed about 13 billion years ago. This image was taken by NASA's Hubble Space Telescope.

PARTICULATE REVIEW

**Atoms** and Molecules: What's the Difference?

In Chapter 1 we explore how chemists classify different kinds of matter, from elements to compounds to mixtures. Hydrogen and helium were the first two elements formed after the universe began. Chemists use distinctively colored spheres to distinguish **atoms** of different elements in their drawings and models. For example, hydrogen is almost always depicted as white.

- How many of the following particles are shown in this image?
- Hydrogen **atoms**?
- Hydrogen molecules?
- Helium **atoms**?
- Are molecules composed of **atoms**, or are **atoms** composed of molecules?

SHOW ANSWER

Learning Outcomes

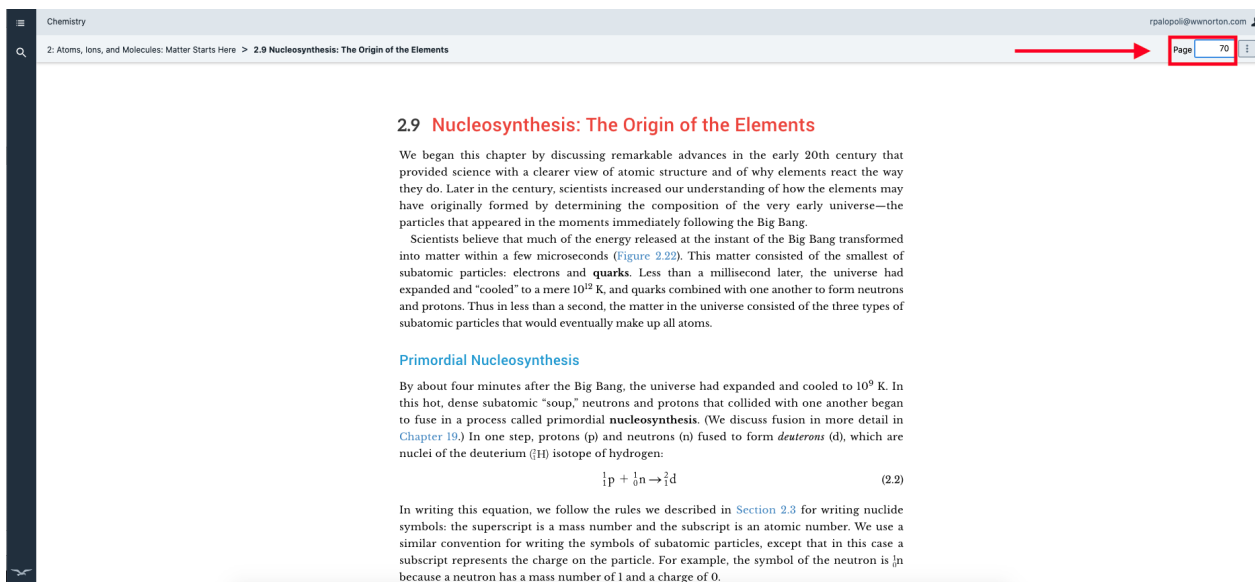
**Please Note:** These search results are for the entire book. Anytime the keyword you entered is displayed in the text, it will show up here. If you would like to view the help notes on searching the



Table of Contents, please click here.

## How do I search by page number?

You can search by a specific page number by inserting a number into the page field on the right-hand of the screen. This box will display the current page number you are viewing.



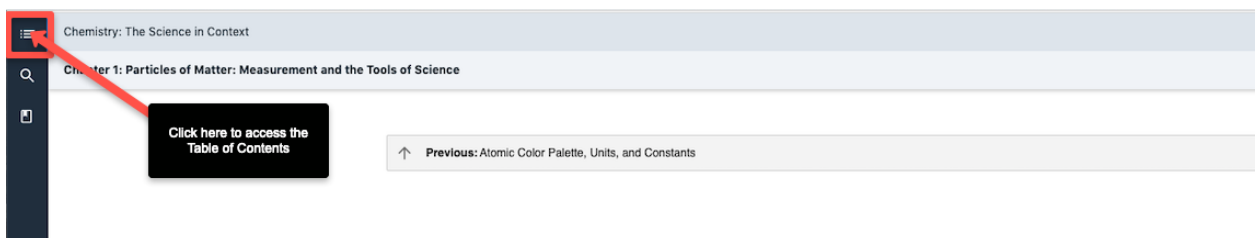
The screenshot shows the top navigation bar of an ebook reader. The breadcrumb trail is "2: Atoms, Ions, and Molecules: Matter Starts Here > 2.9 Nucleosynthesis: The Origin of the Elements". On the right side of the navigation bar, there is a "Page" field containing the number "70". A red arrow points from the right edge of the page towards this field. The main content area displays the title "2.9 Nucleosynthesis: The Origin of the Elements" and the beginning of the text, including a section on "Primordial Nucleosynthesis" and a chemical equation: 
$${}^1_1\text{p} + {}^1_0\text{n} \rightarrow {}^2_1\text{d} \quad (2.2)$$

After inserting a number in the page and select return on your keyboard, the ebook will take you to that page.

## Can I read my ebook offline?

The newest version of the Norton Ebook Reader features the ability to read sections of your ebook offline.

Open any chapter of your ebook and select the **Table of Contents** icon.



The screenshot shows the top navigation bar of an ebook reader. The breadcrumb trail is "Chapter 1: Particles of Matter: Measurement and the Tools of Science". On the left side, there is a vertical sidebar with a "Table of Contents" icon. A red arrow points from this icon to a black callout box that says "Click here to access the Table of Contents". Below the callout box, there is a "Previous" button with an upward arrow and the text "Previous: Atomic Color Palette, Units, and Constants".

Select the 3 dot **Action Menu** from the ebook's Table of Contents view.

Chemistry: The Science in Context  
Chapter 1: Particles of Matter: Measurement and the Tools of Science

Previous: Atomic Color Palette, Units, and Constants

# 1

## Particles of Matter

Measurement and the Tools of Science

The screenshot shows the left sidebar of a digital textbook. The 'Table of Contents' is expanded, and a red box highlights a button labeled 'Select content for offline reading' next to the 'Table of Contents' header. A red arrow points from this button to the main content area. The main content area shows the chapter title '1 Particles of Matter' and the subtitle 'Measurement and the Tools of Science'. A 'Previous' link is visible above the chapter title.

Click **Select content for offline reading**

Chemistry: The Science in Context  
Chapter 3: Stoichiometry: Mass, Formulas, and Reactions

Previous: Summary

# 3

## Stoichiometry

Mass, Formulas, and Reactions

The screenshot shows the left sidebar of a digital textbook. The 'Table of Contents' is expanded, and a red box highlights a button labeled 'Select content for offline reading' next to the 'Table of Contents' header. A red arrow points from this button to the main content area. The main content area shows the chapter title '3 Stoichiometry' and the subtitle 'Mass, Formulas, and Reactions'. A 'Previous' link is visible above the chapter title.

Once offline reading is enabled, cached section **buttons** showing content available for offline reading will appear on the left as shown below.

Chemistry: The Science in Context

Chapter 3: Stoichiometry: Mass, Formulas, and Reactions

↑ Previous: Summary

# 3

## Stoichiometry

Mass, Formulas, and Reactions




Table of Contents

Search Table of Contents

**CHEMISTRY** Chemistry: The Science in Context  
Sixth Edition  
by Natalie Foster

- Ⓢ Front Matter >
- Ⓢ Chapter 1: Particles of Matter: Measurement and the Tools of Science >
- Ⓢ Chapter 2: Atoms, Ions, and Molecules: Matter Starts Here >
- Ⓢ Chapter 3: Stoichiometry: Mass, Formulas, and Reactions >
- Ⓢ Chapter 4: Reactions in Solution: Aqueous Chemistry in Nature >
- Ⓢ Chapter 5: Properties of Gases: The Air We Breathe >
- Ⓢ Chapter 6: Thermochemistry: Energy Changes in Chemical Reactions >
- Ⓢ Chapter 7: A Quantum Model of Atoms: Waves, Particles, >

Select content for offline reading. **Cancel**

Select the content you would like to make available for offline reading by selecting the **button** to the left of the chapter. You can also use the arrows to the right of the chapter title to view more detailed options when selecting content. Once you have finished selecting content, a progress bar will appear at the bottom of the page.

Table of Contents Available Offline

Search Table of Contents

**CHEMISTRY** Chemistry: The Science in Context  
Sixth Edition  
by Natalie Foster

- Front Matter
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- Chapter 4: Reactions in Solution: Aqueous Chemistry in Nature
- Chapter 5: Properties of Gases: The Air We Breathe
- Chapter 6: Thermochemistry: Energy Changes in Chemical Reactions

Preparing for offline reading... (2/11 item)

# 3

## Stoichiometry

Mass, Formulas, and Reactions



Please note: The more content you select, the longer it will take to make your selection available for offline reading.

When a section has been successfully cached, you will see the **Available Offline** tab as shown here and a check mark will appear next to the cached content.

The screenshot displays a digital chemistry textbook interface. On the left, a dark sidebar contains a 'Table of Contents' section with a search bar and a list of chapters. The 'Available Offline' tab is highlighted with a red box, and a red arrow points from it to the right. The main content area shows the title 'Chemistry: The Science in Context' and 'Chapter 3: Stoichiometry: Mass, Formulas, and Reactions'. A large number '3' is prominently displayed, followed by the chapter title 'Stoichiometry' and the subtitle 'Mass, Formulas, and Reactions'. Below the text is a photograph of a person in a laboratory setting, possibly a student, working with equipment. At the bottom of the sidebar, there is a 'Cancel' button and a note about selecting content for offline reading.

After the content you selected has been made available for offline reading, click on the **Available Offline** tab to view the sections cached for offline reading. The content can be accessed directly via the link as shown here:

Chemistry: The Science in Context

Chapter 3: Stoichiometry: Mass, Formulas, and Reactions

Table of Contents

Available Offline

Access your offline content directly with a link.

<https://nerd.wwnorton.com/nerd> Copy

Chapter 3: Stoichiometry: Mass, Formulas, and Reactions

Previous: Summary

# 3

## Stoichiometry: Mass, Formulas, and Reactions

Click on the **Cancel** button to return to the Table of Contents.

Please Note: Media content (audio, video, animations, etc.) found in the ebook will only function with an active internet connection; those resources cannot be made available offline.

### Highlights and Annotations

- In offline reading mode, you will only see notes and highlights for the content you've cached for offline reading.
- Notes and highlights cannot be created while in Offline Reading mode.

### Parts of the ebook I previously made available offline are no longer available offline.

- Offline reading uses storage built into internet browsers. This means that when you make parts of your ebook available for offline reading, you aren't actually downloading or saving anything to your computer or mobile device.
- Sometimes, when your browsing history is cleared, the parts of the ebook you've made available offline will be cleared and will no longer be available for offline reading.
- To make these sections available for offline reading again, you'll need to get back online and repeat the same process you used to make those selections available offline the first time.

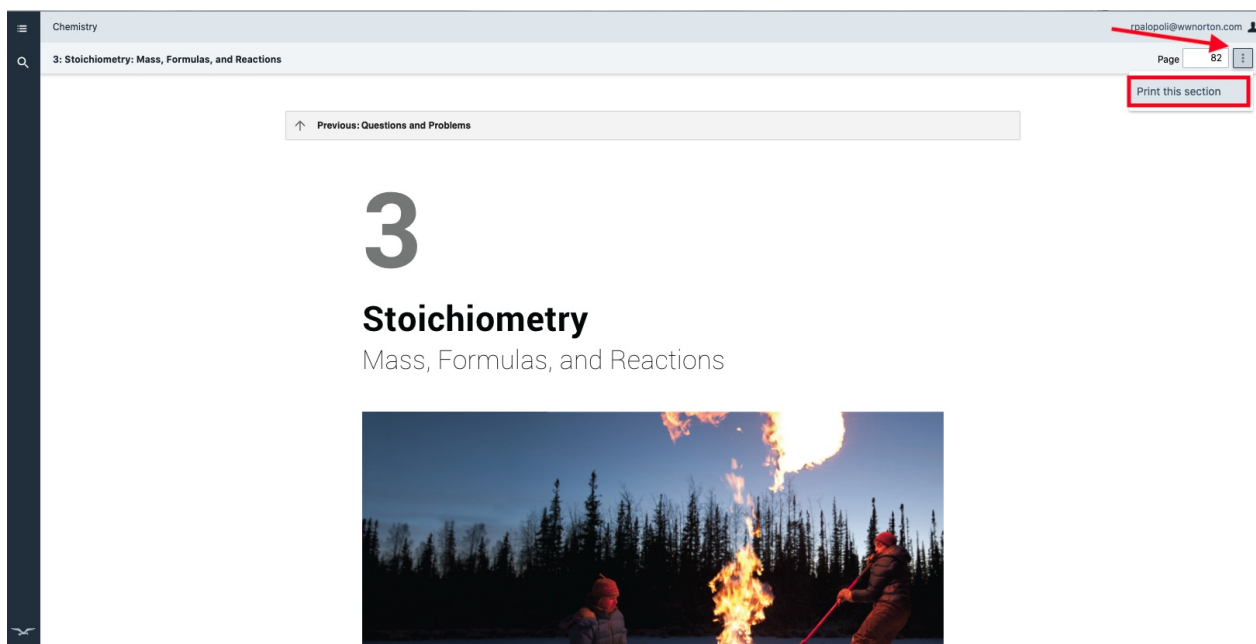
## Does the ebook support audio narration?

Norton Ebooks and the Norton Ebook Reader are compatible both with screen readers and with browser extensions that enable text-to-speech functionality, such as the “Read Aloud” tool available on Google Chrome and Firefox. Apple and Google also offer text-to-speech solutions that you can use to read your ebook aloud on mobile devices. Please click on one of the links below for more information:

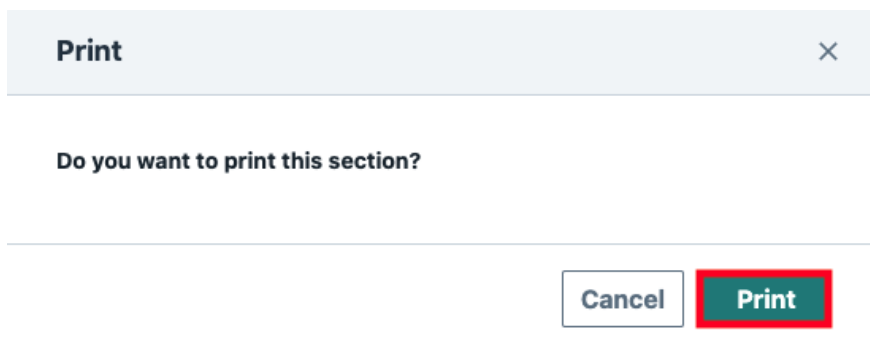
- Apple iOS: [VoiceOver](#)
- Chrome: [Read Aloud: A Text to Speech Voice Reader](#)
- Google Android: [Google Text-to-speech](#)
- Firefox: [Read Aloud: A Text to Speech Voice Reader](#)

## How do I print a specific section of the ebook?

To print a specific section, select the three dots next to the page number at the top.

A screenshot of a web browser displaying the Norton Ebook Reader interface. The page title is "3: Stoichiometry: Mass, Formulas, and Reactions". In the top right corner, there is a "Page 62" indicator with a three-dot menu icon to its right. A red arrow points from the text above to this menu icon. A red box highlights the "Print this section" option that appears in the menu. The main content area shows a large number "3", the title "Stoichiometry", and the subtitle "Mass, Formulas, and Reactions". Below the text is a photograph of two people in winter gear standing in a snowy forest at night, with a large fire burning in the foreground.

Select 'print' from the confirmation box.

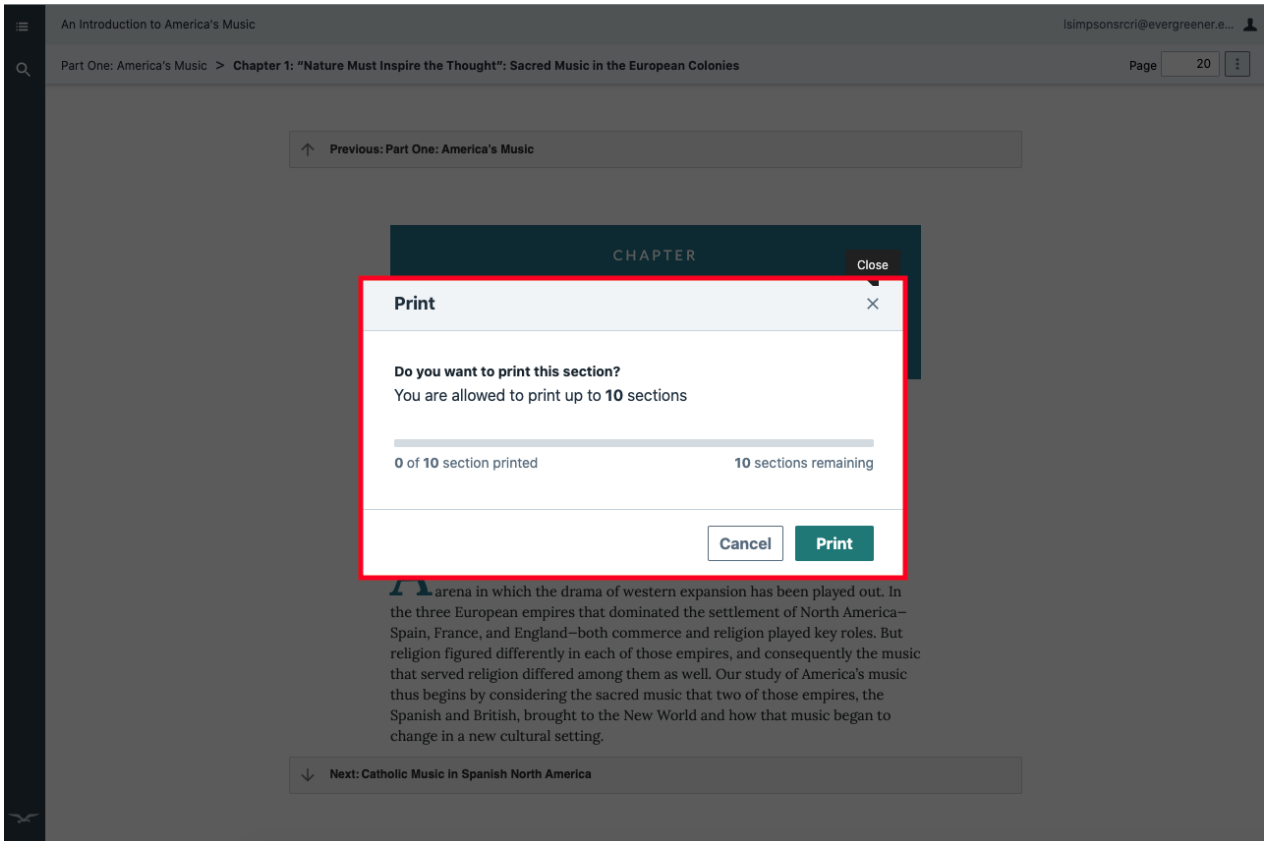
A screenshot of a print confirmation dialog box. The dialog has a title bar that says "Print" with a close button (X) on the right. Below the title bar, the question "Do you want to print this section?" is displayed. At the bottom of the dialog, there are two buttons: "Cancel" and "Print". The "Print" button is highlighted with a red border.

## Can I print the entire ebook?

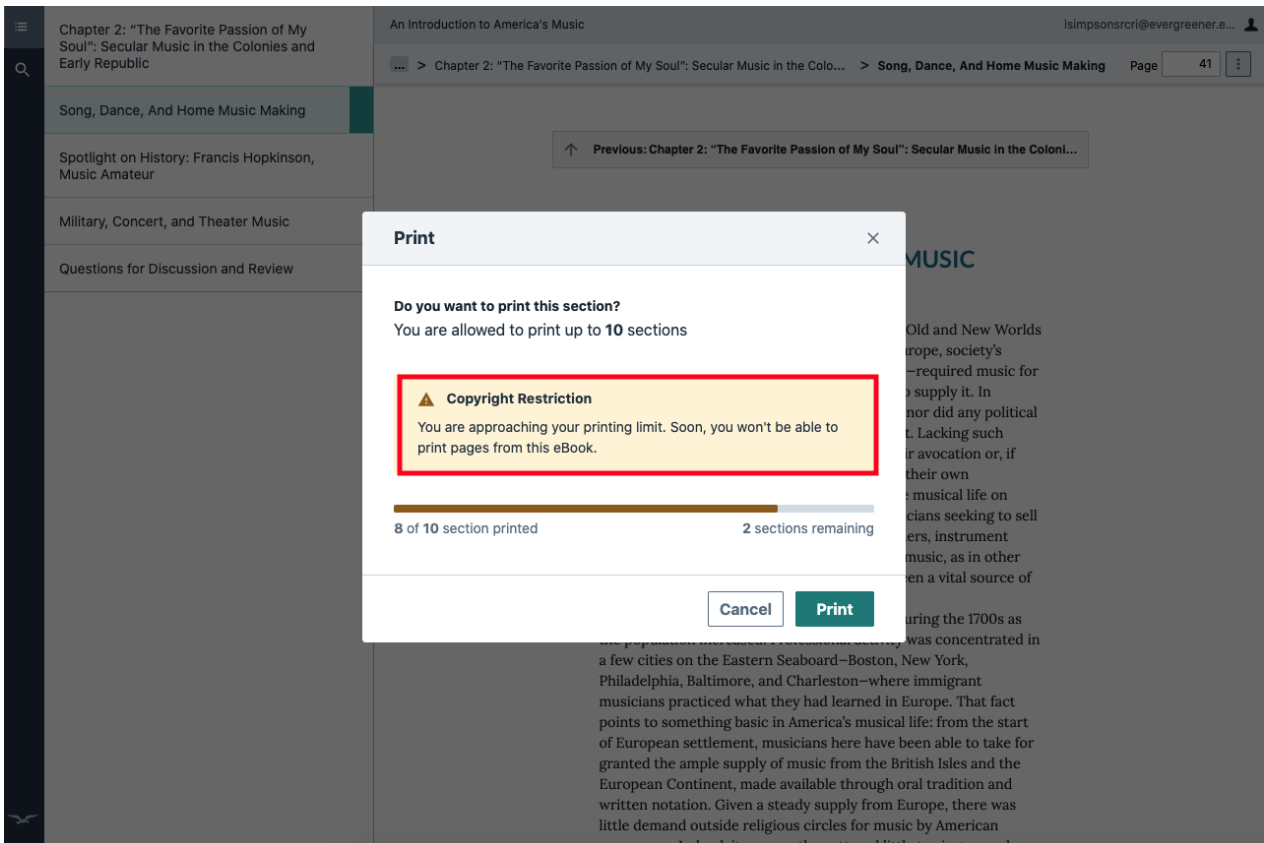
The number of sections you are allowed to print varies by title.



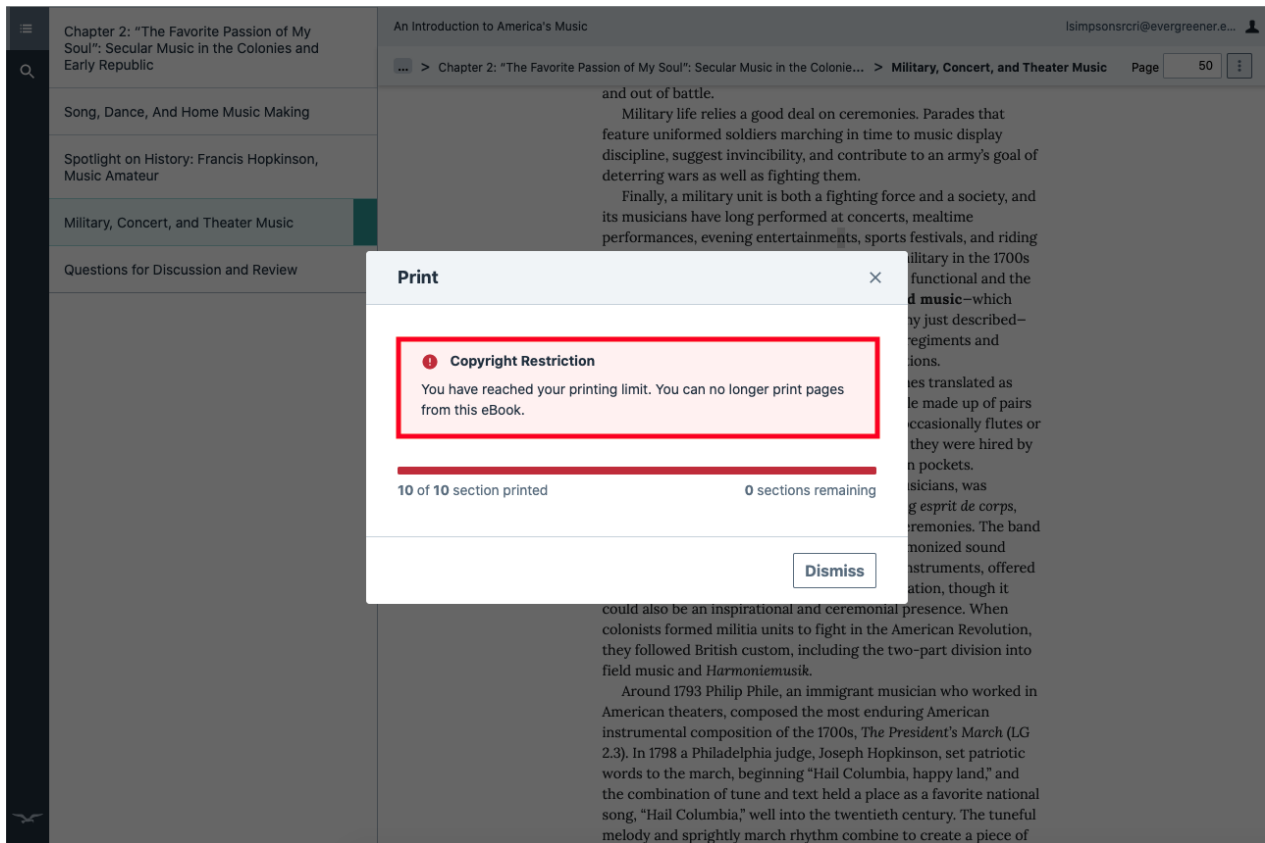
When you select print on a section, you will see a popup window with a progress bar which indicates how many sections you have already printed and how many you have left to print.



When you are close to the limit, you will see a copyright restriction message.



When you have reached the limit, you will see a message notifying you the limit has been reached.



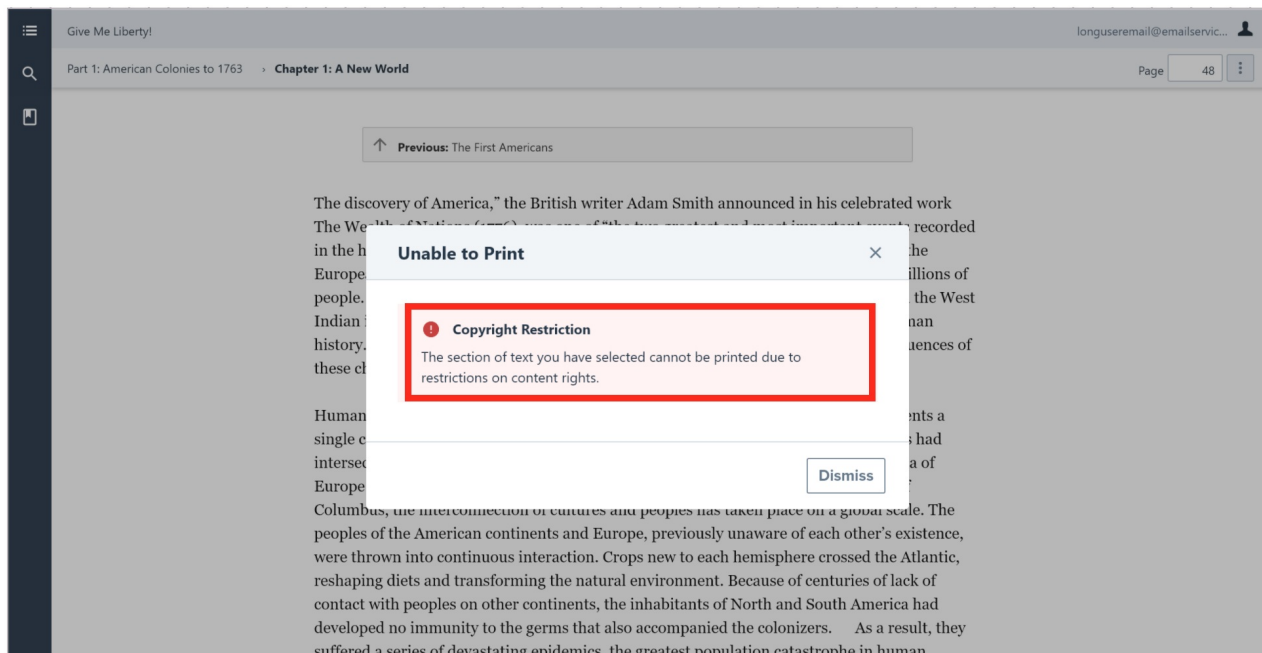
The screenshot shows a digital reading interface. On the left is a navigation sidebar with a search icon and a list of sections: 'Chapter 2: "The Favorite Passion of My Soul": Secular Music in the Colonies and Early Republic', 'Song, Dance, And Home Music Making', 'Spotlight on History: Francis Hopkinson, Music Amateur', 'Military, Concert, and Theater Music' (highlighted), and 'Questions for Discussion and Review'. The main content area displays text from 'An Introduction to America's Music', specifically the 'Military, Concert, and Theater Music' section, with 'Page 50' indicated. A 'Print' popup window is overlaid on the text. The popup has a title bar 'Print' and a close button. Inside, a red-bordered box contains a red exclamation mark icon and the text 'Copyright Restriction'. Below this, it says 'You have reached your printing limit. You can no longer print pages from this eBook.' At the bottom of the popup, a progress bar shows '10 of 10 section printed' and '0 sections remaining'. A 'Dismiss' button is located at the bottom right of the popup.

**Please Note:** The print quota is based on copyright restrictions which are set by title. Print quotas cannot be reset on user accounts. Once you have printed the maximum amount allowed, you will not be able to print another section. Please keep this in mind when selecting sections to print.

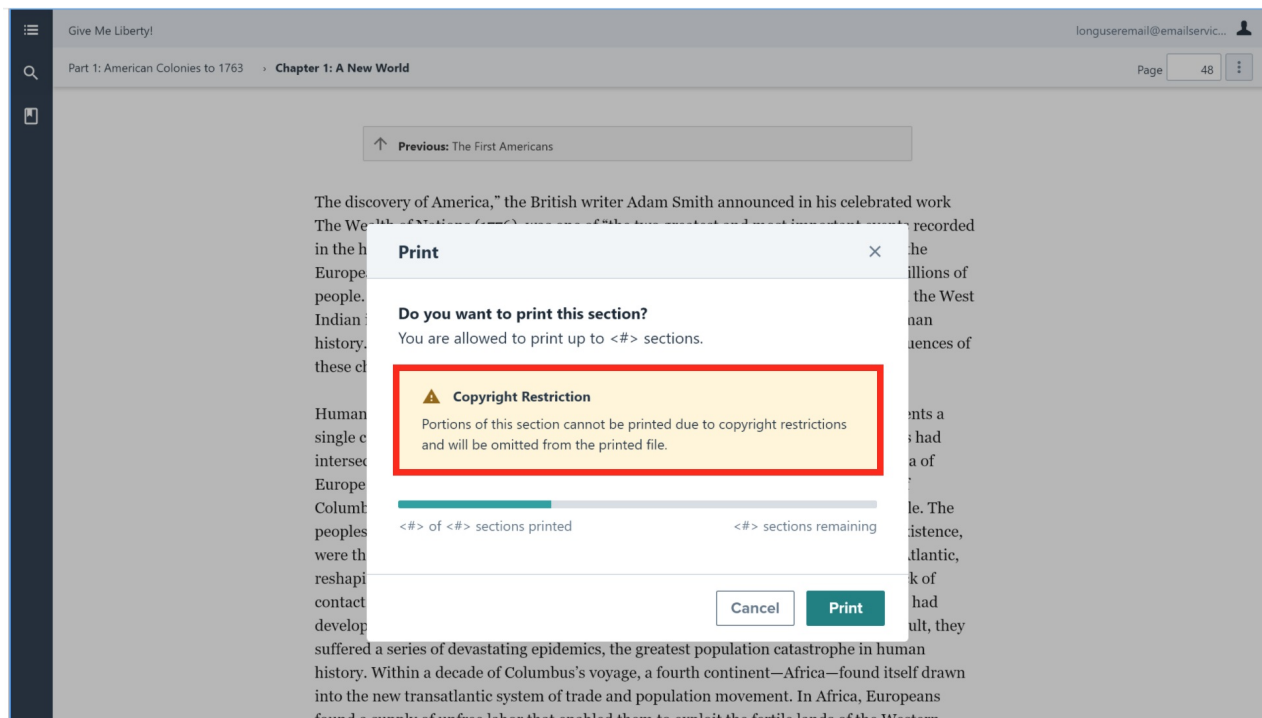
## Why can't I print certain sections?

Some sections or parts of a section cannot be printed due to copyright restrictions. After selecting print this section, the popup you see will indicate if the section is available.

If the section you want to print is unavailable due to a copyright restriction, you will see the following message.



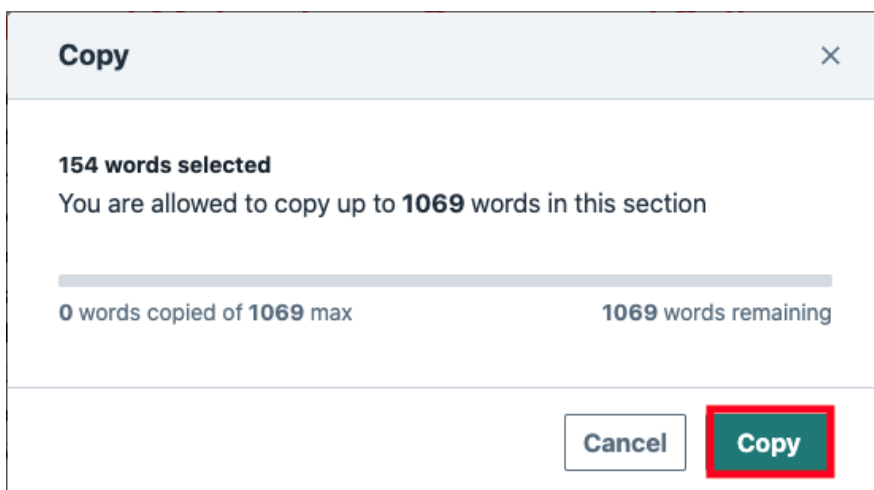
You may also see a message that indicates only part of the section is available for printing.



## Can I copy and paste text from the ebook?

You can copy text by highlighting a portion of the text and using your keyboard shortcuts (command+c for mac, control+c for windows).

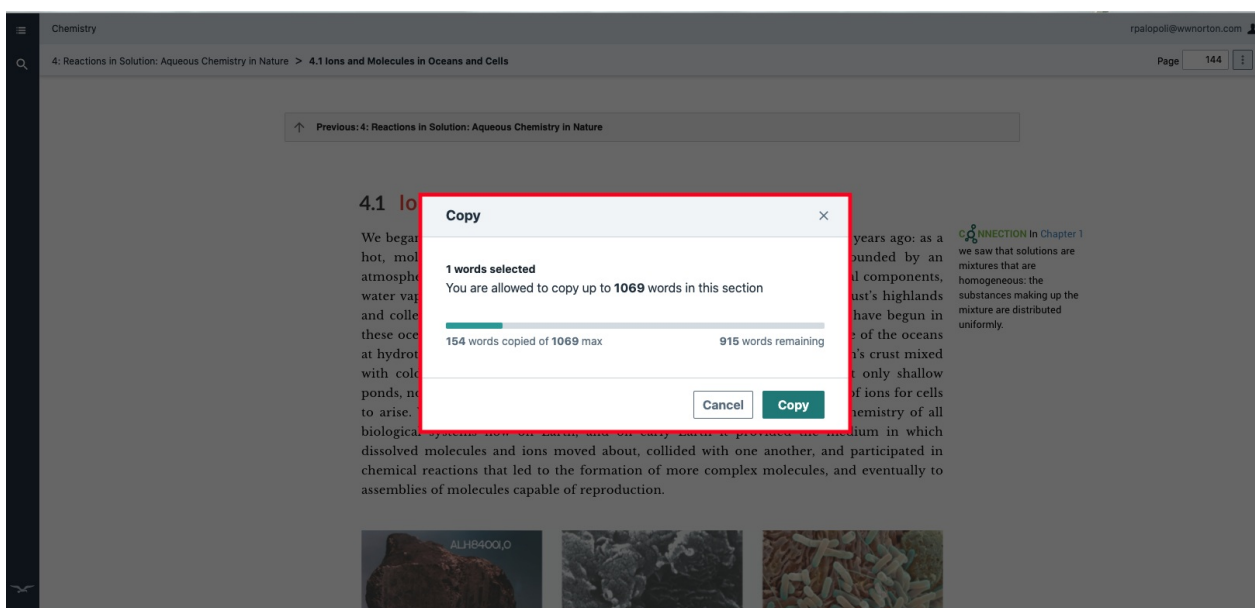
Once you have selected the area of the text you want to copy, you will see the following pop-up which indicates how many words you have copied, and how many you are allowed to copy from the ebook.



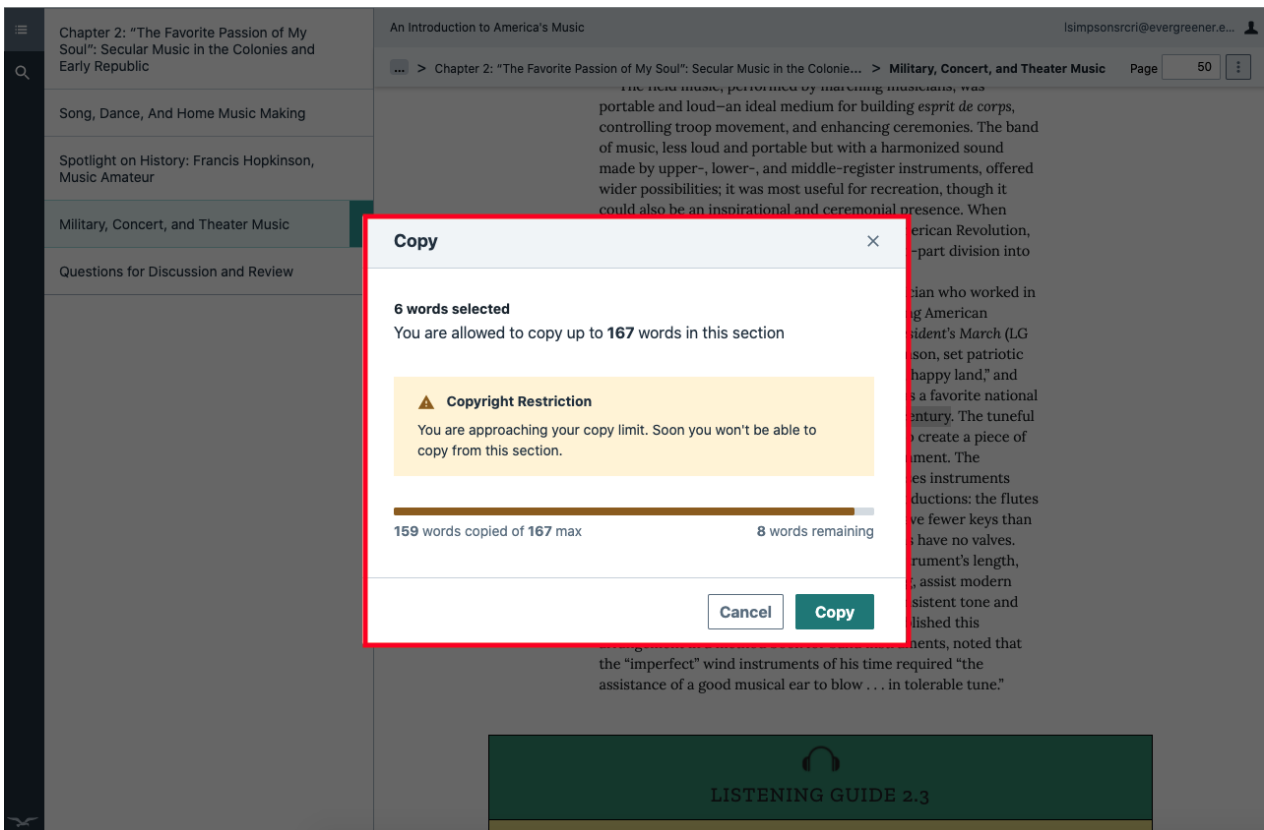
## Can I copy the entire ebook?

The amount of content you can copy varies by title.

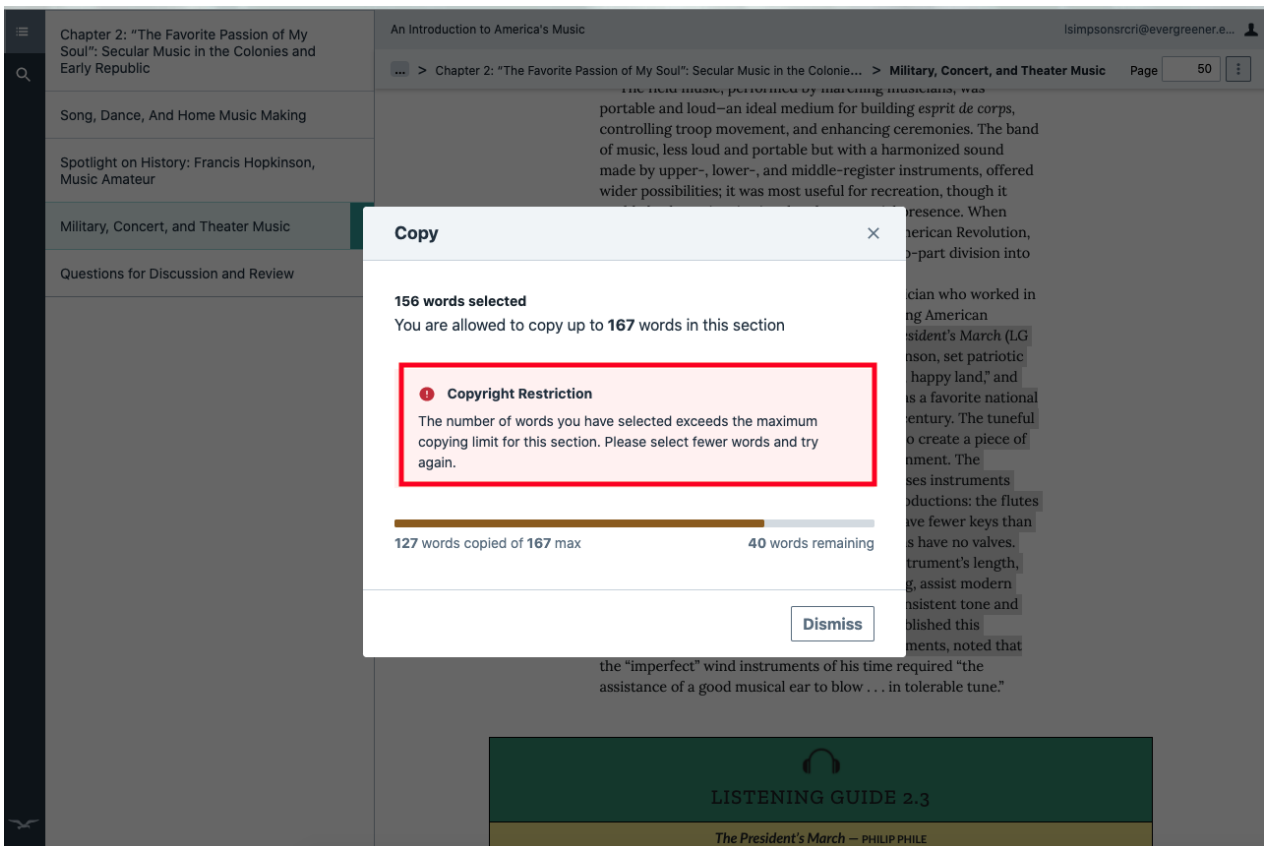
When you select a section of the text to copy, you will see a popup window with a progress bar indicating how many words you have already copied and how many you have left.



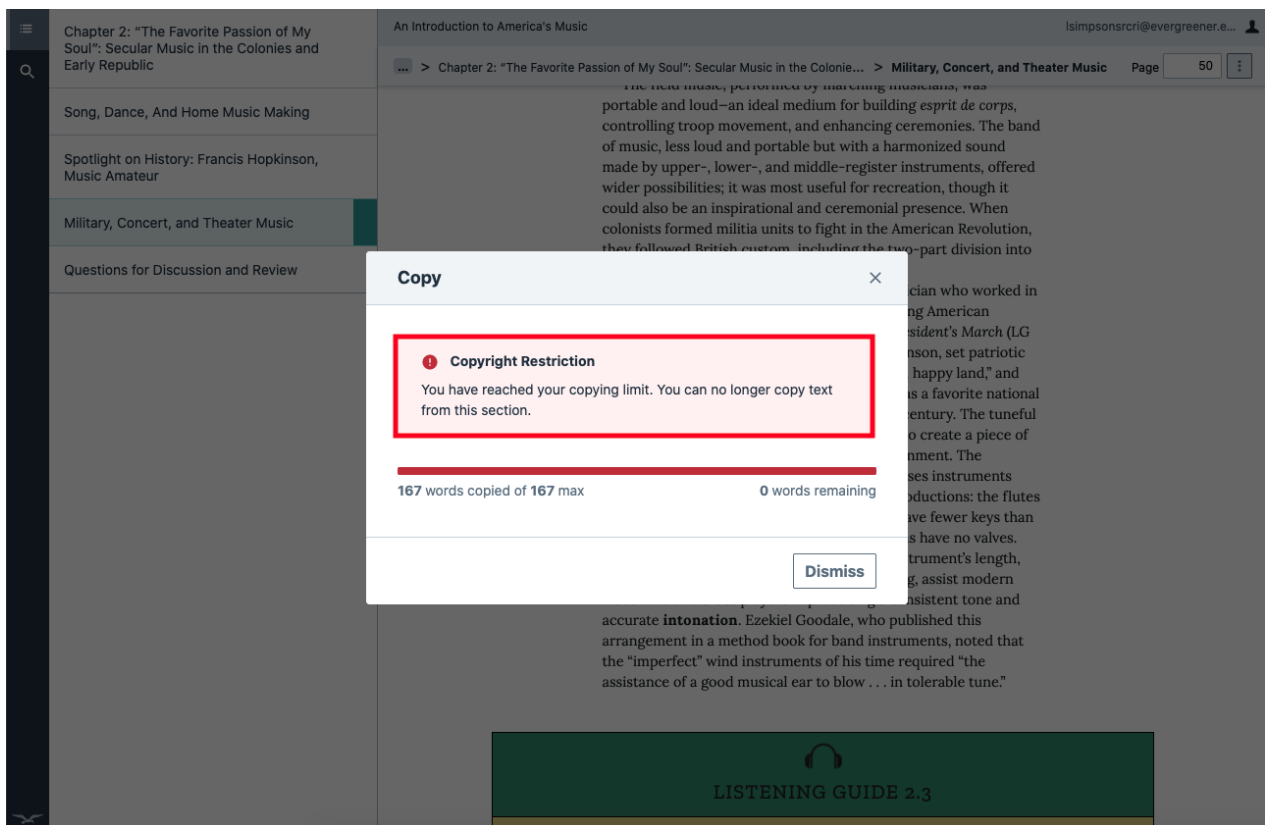
When you are approaching the limit, you will see a copyright restriction message.



If you have exceeded the copying limit, you will see the following message.



When you have reached the limit, you will see a message notifying you the limit has been reached.



**Please Note:** The copy quota is based on copyright restrictions which are set by title. Copy quotas cannot be reset on user accounts. Once you have copied the maximum amount allowed, you will not be able to copy another section. Please keep this in mind when selecting sections to copy.

## Why can't I copy certain parts of the ebook?

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Part 1: American Colonies to 1763 > Chapter 1: A New World Page 48

↑ Previous: The First Americans

The discovery of America," the British writer Adam Smith announced in his celebrated work The Wealth of Nations (1776) was one of the two greatest and most important events recorded in the history of the world. The discovery of America by Christopher Columbus in 1492 opened the way for the European conquest of the Americas. In the centuries that followed, millions of Europeans came to the Americas, and the West Indies, and the Americas became a major part of the world economy. The discovery of America also opened the way for the European conquest of the Americas, and the Americas became a major part of the world economy.

Human history has been shaped by the discovery of America. The discovery of America opened the way for the European conquest of the Americas, and the Americas became a major part of the world economy. The discovery of America also opened the way for the European conquest of the Americas, and the Americas became a major part of the world economy.

Columbus, the interconnection of cultures and peoples has taken place on a global scale. The peoples of the American continents and Europe, previously unaware of each other's existence, were thrown into continuous interaction. Crops new to each hemisphere crossed the Atlantic, reshaping diets and transforming the natural environment. Because of centuries of lack of contact with peoples on other continents, the inhabitants of North and South America had developed no immunity to the germs that also accompanied the colonizers. As a result, they suffered a series of devastating epidemics, the greatest population catastrophe in human history. Within a decade of Columbus's voyage, a fourth continent—Africa—found itself drawn into the new transatlantic system of trade and population movement. In Africa, Europeans

**Unable to Copy** ×

**Copyright Restriction**

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