

WORLD OF CHEMISTRY

DIGITAL WALKTHROUGH

Florida Edition

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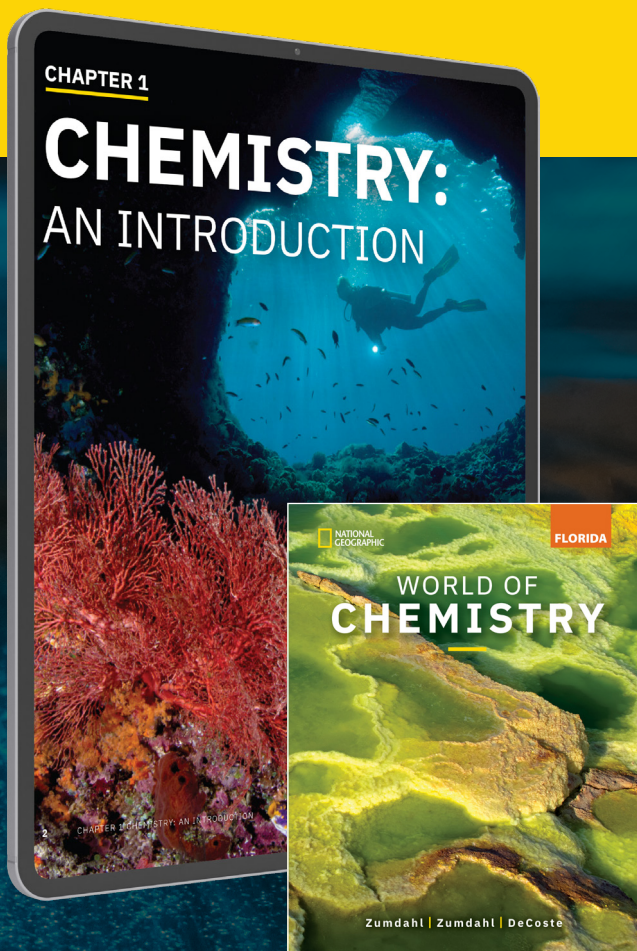
 Cengage MindTap





DIGITAL WALKTHROUGH

Student And Teacher's Edition



**National Geographic
World of Chemistry, Florida Edition**

Florida Chemistry Review Leaders,

Easy to read and accessible to all students, **World Of Chemistry, Florida Edition** includes National Geographic images and visuals, numerous problem-solving examples, a wide range of end-of-chapter exercises, and real-world applications that truly bring the “world of chemistry” together in one unique central learning resource. Offering a rigorous but understandable introduction to chemistry, this program reflects the authors’ belief that chemistry is something students must construct for themselves with the help of the teacher, content support including introductions to National Geographic Explorers, and laboratory exploration.

We look forward to **Bringing The World Into Your Florida Classroom** with **National Geographic World of Chemistry**.

Kind Regards,
Your Florida NGL Team

| FOCUS, CONNECT, AND ENGAGE

Our online solutions help you and your students accelerate learning by staying focused, connecting to content, and engaging with the world.

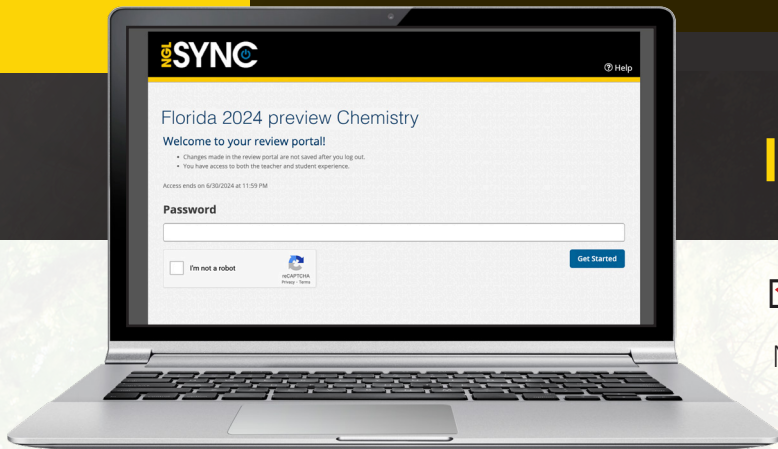
National Geographic Learning, a part of Cengage Group, is proud to partner with educators and schools to offer a wide range of access, enrollment, and integration offerings to our digital programs:

Our digital courseware solutions support your instruction and put students at the center of learning.

- Independent Learning and Assessment Tools
- Course Planning and Effective Teaching Support
- In-Class Teaching Opportunities



**Cengage
MindTap**



WALKTHROUGH MINDTAP

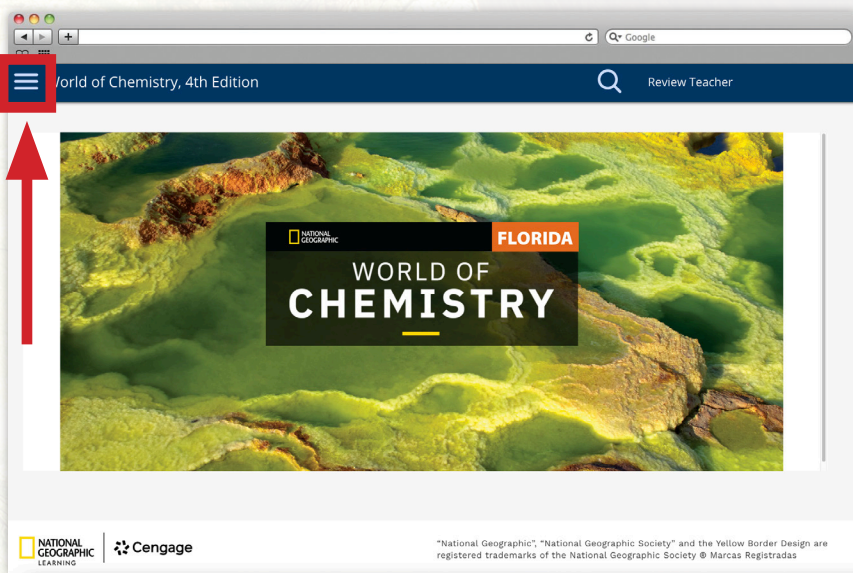
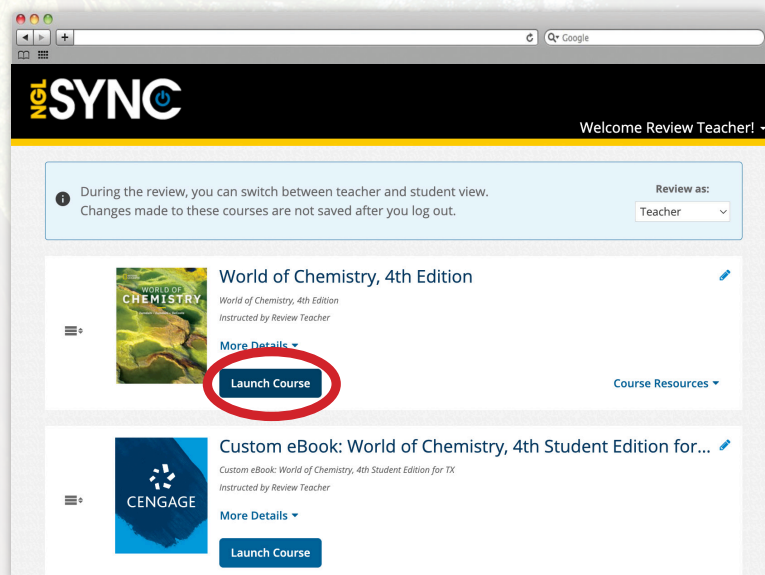
A Step-by-Step Checklist

Need credentials? Explore a sample or request digital access at

NGL.Cengage.com/FL-Science

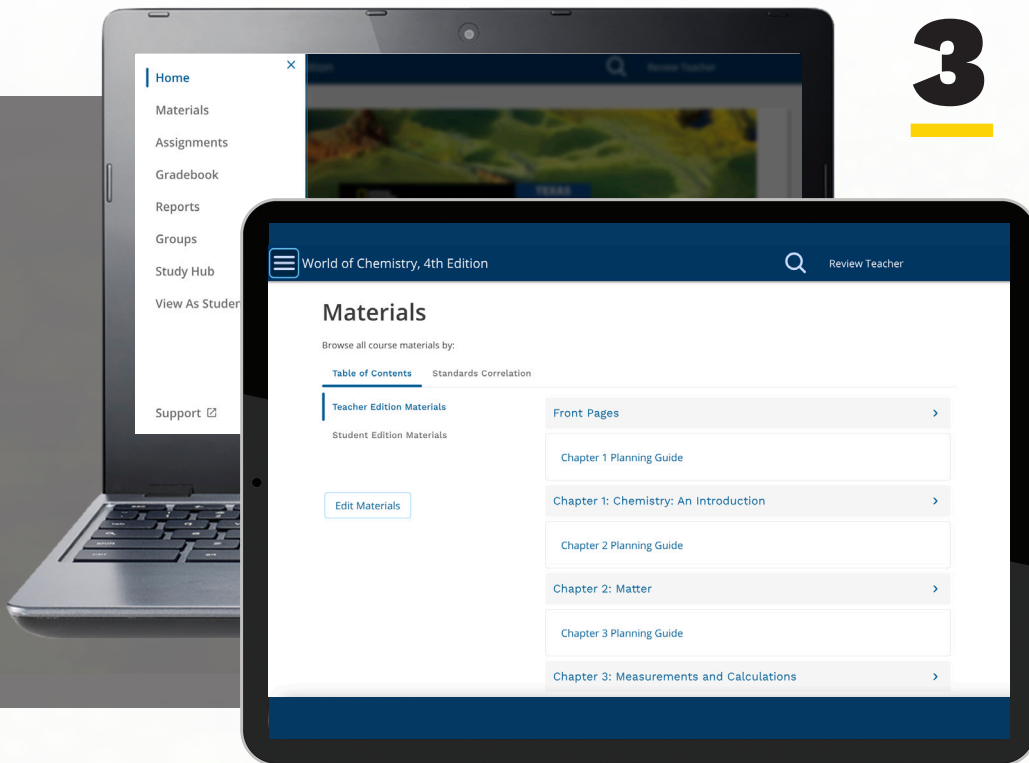
1 Login

- Note the “**Course Resources**” opens a dropdown to access the **Cognero online test generator** with included test bank as well as a link to the Instructor companion site
- Select the “**Launch Course**” button for the course you would like to access
- If you logged in as a teacher, you will be taken to the **Teacher Edition homepage**



2 Welcome Launch

- Select the 3 horizontal lines in the upper-left corner to access the drop-down menu
- Select **Materials**

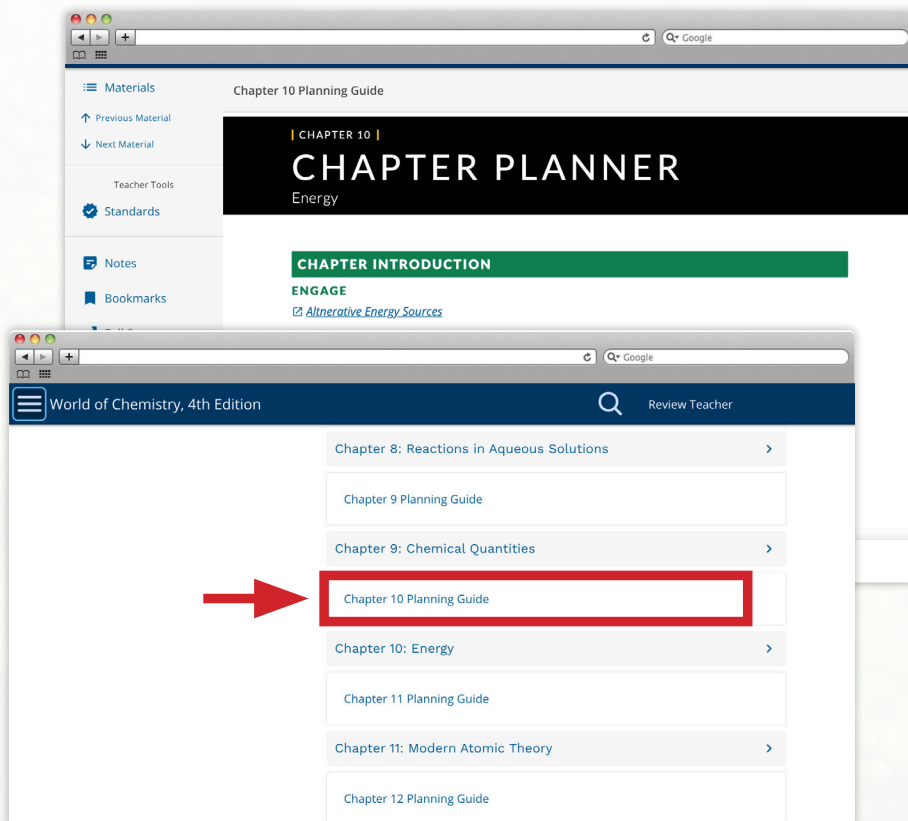


3 Drop-Down Menu

- Select **Materials**
- View the **Table of Contents** as well as the **Standards Correlations**

4 Chapter Planning Guide

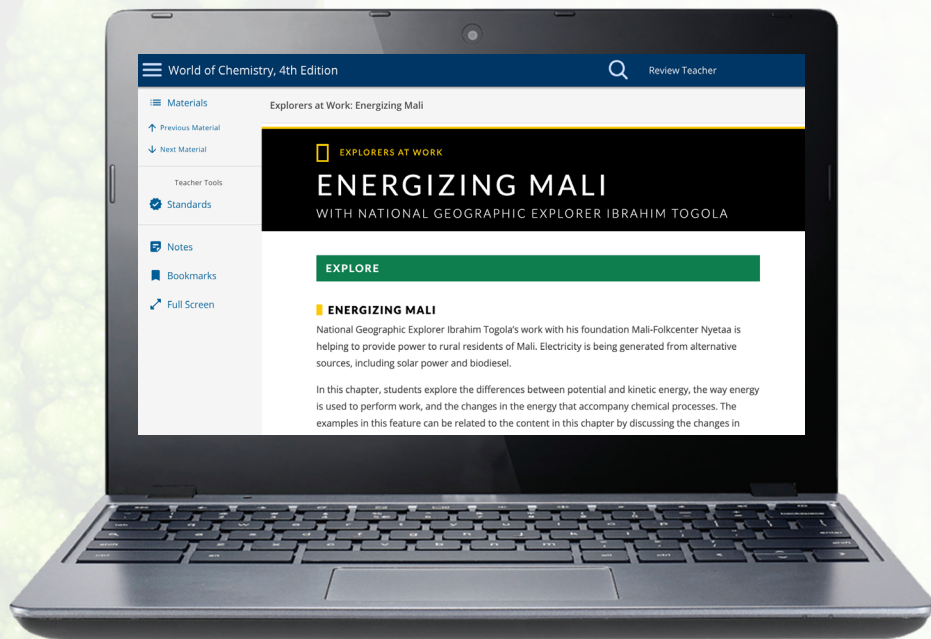
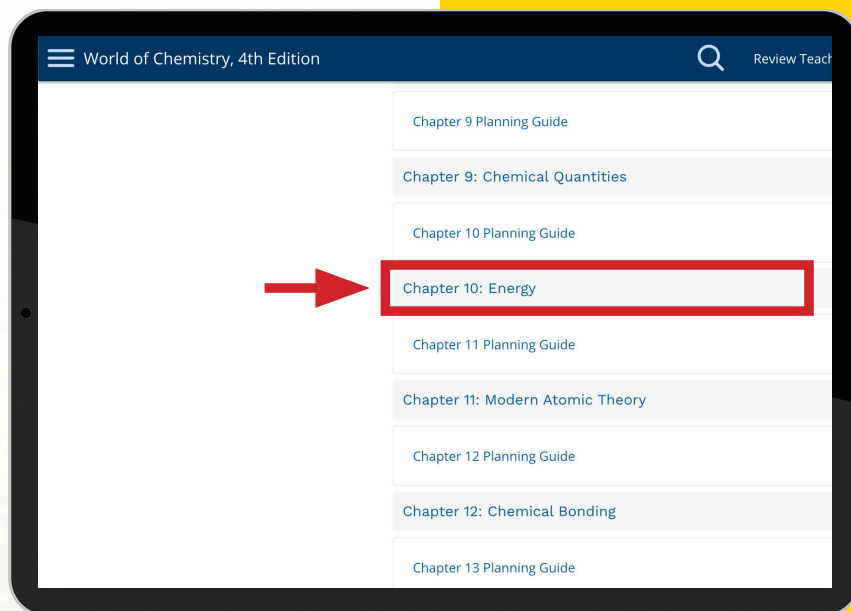
- Scroll Down, see all 21 Chapters available, **Select Chapter 10 Planning Guide**
- In the Planning Guide Scroll Down to **preview the resources available each as embedded links**
- Scroll Down to find all the print resources available to support additional instruction



Hint: All Chapters are organized the same way, using **Chapter 10** as an example

5 Chapter 10: Energy

- Select **Materials** Upper Left
- Select **Chapter 10: Energy**
- Select **Explorers At Work – Energizing Mali**

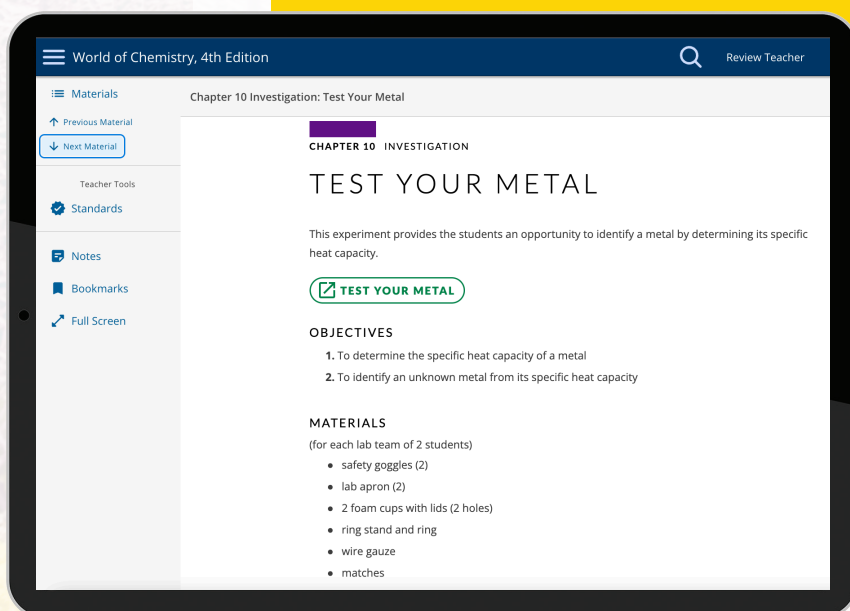
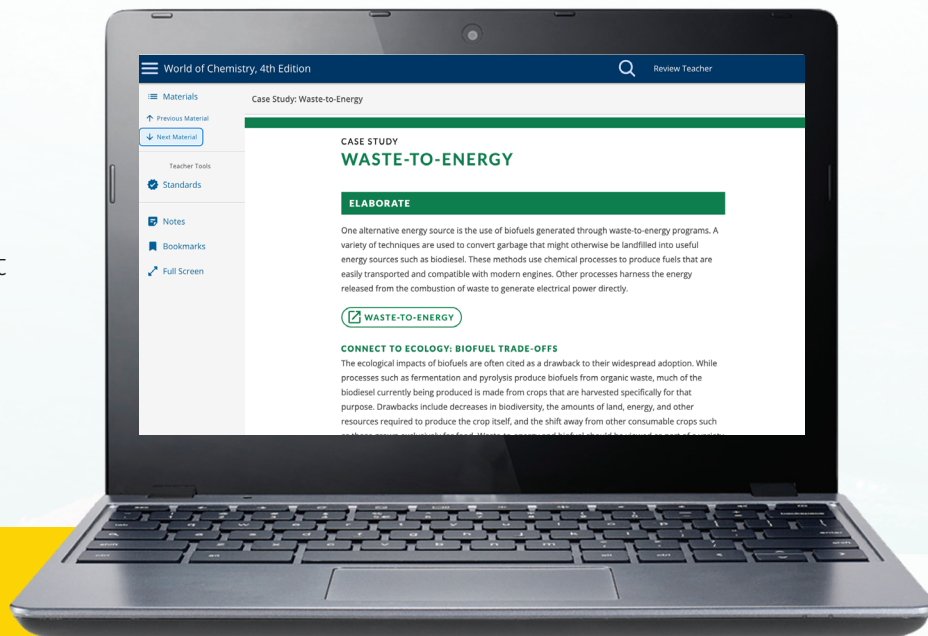


6 Explorers at Work

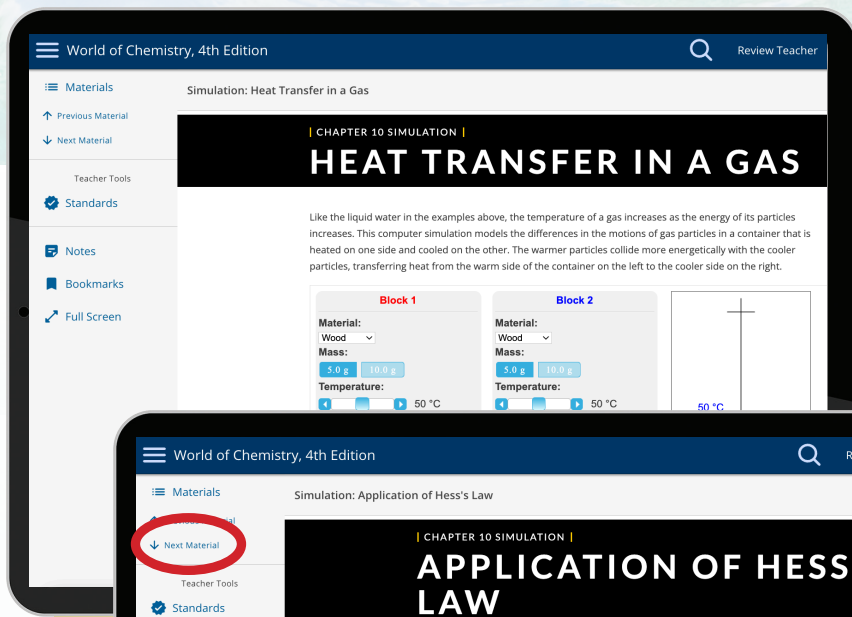
- View **Thinking Critically Questions**
- View **Real-World Issues**
- View **Career Connections**

7 Lessons & Case Study & Investigations

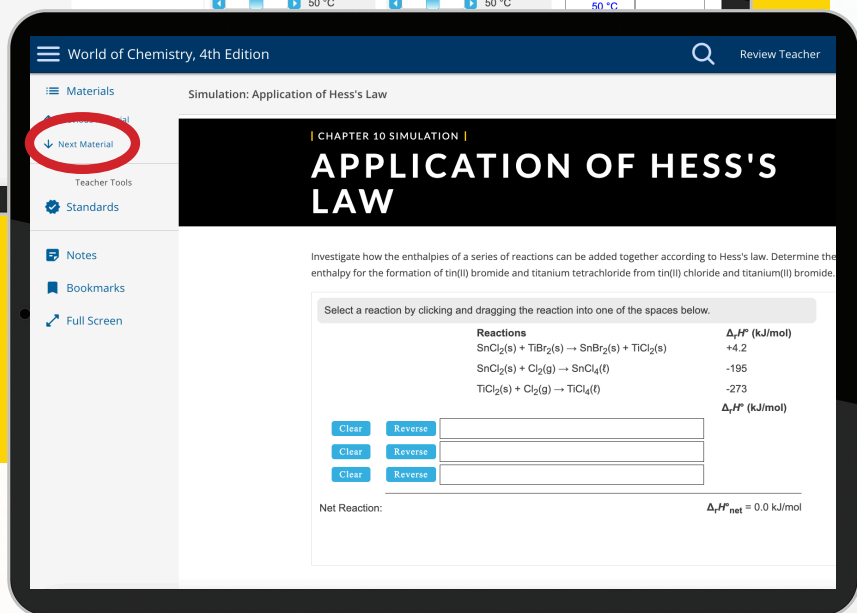
- In the upper-left corner - Select **Next Materials** to view **lessons 10.1 – 10.4**
- Select **Next Material** Find the **Case Study**
- Select **Next Material** Find **Chapter Investigation**
- Select **Next Material** Find List of **Chapter Resources**
- Select **Next Material** Find the **Chapter Simulations**



8a Simulations

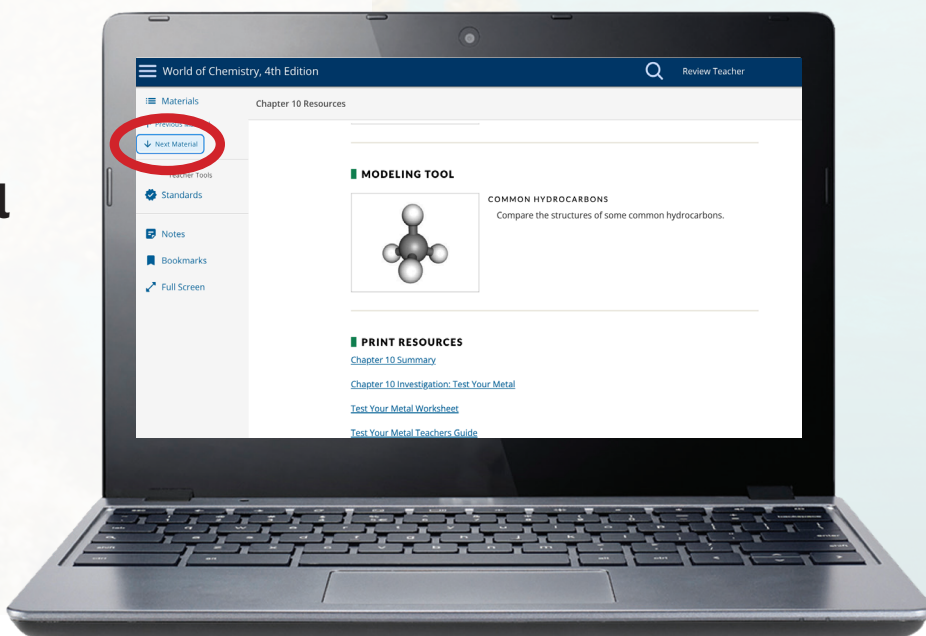


- Simulation: Heat Transfer in a Gas
- Select the **Next Button** in the upper-left corner to view the Other Simulations available in this Chapter



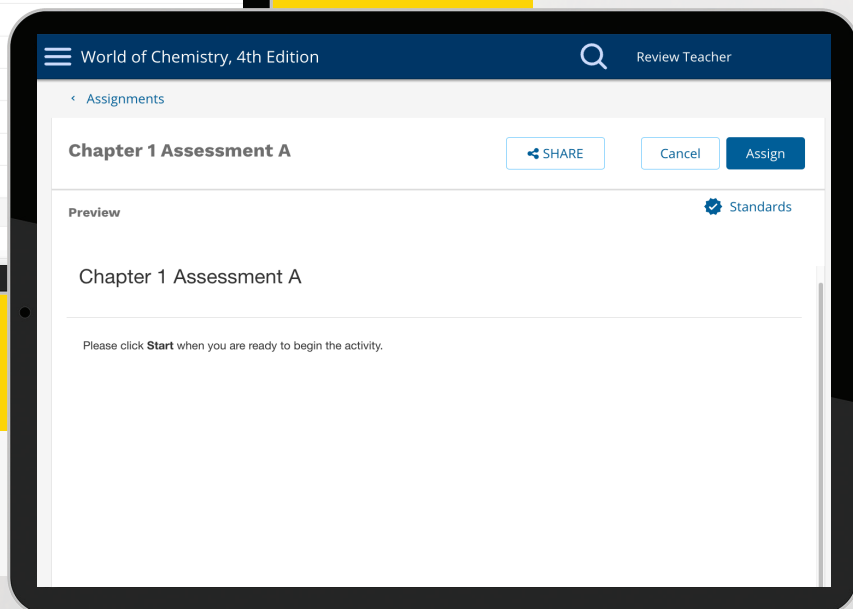
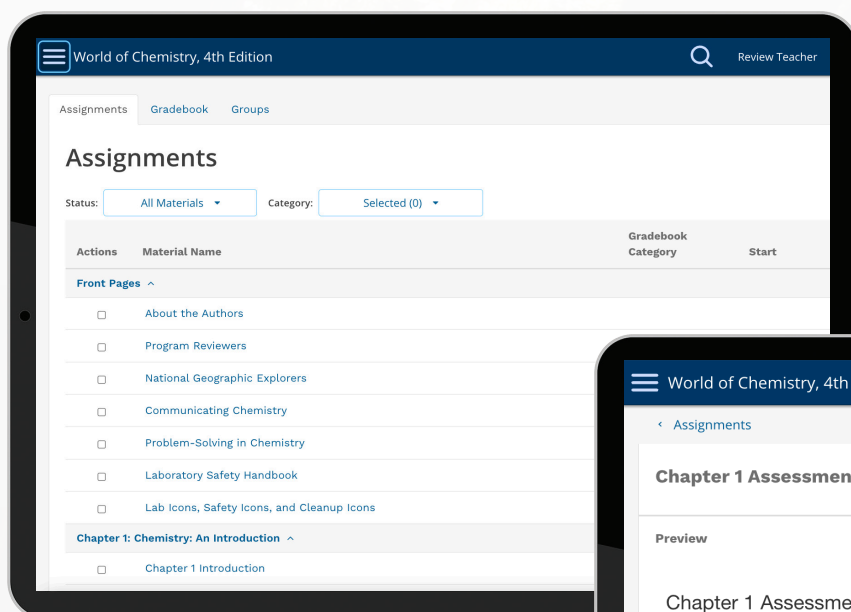
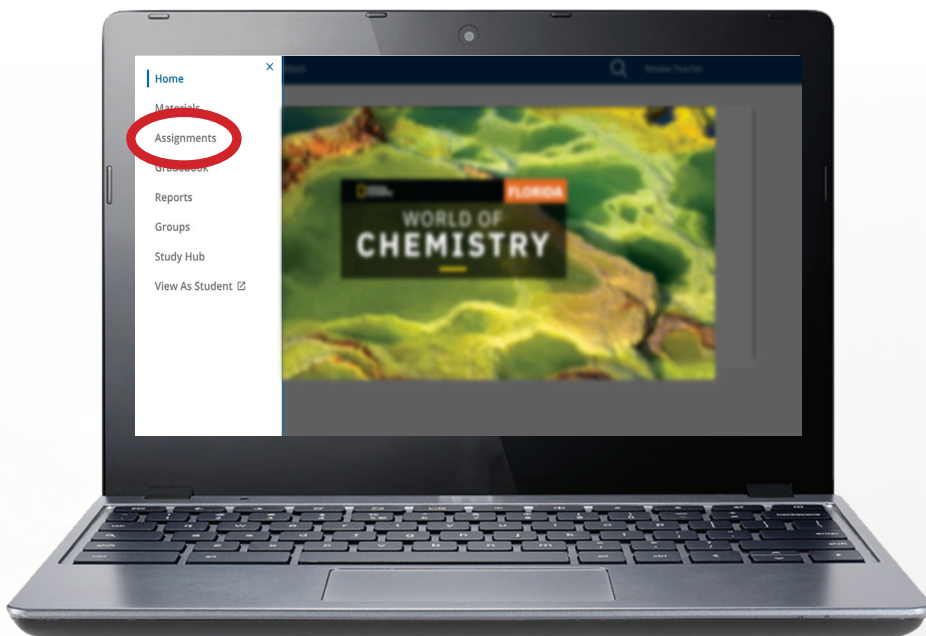
8b Modeling Tool

- Select **Next Materials** to preview the **Modeling Tool**



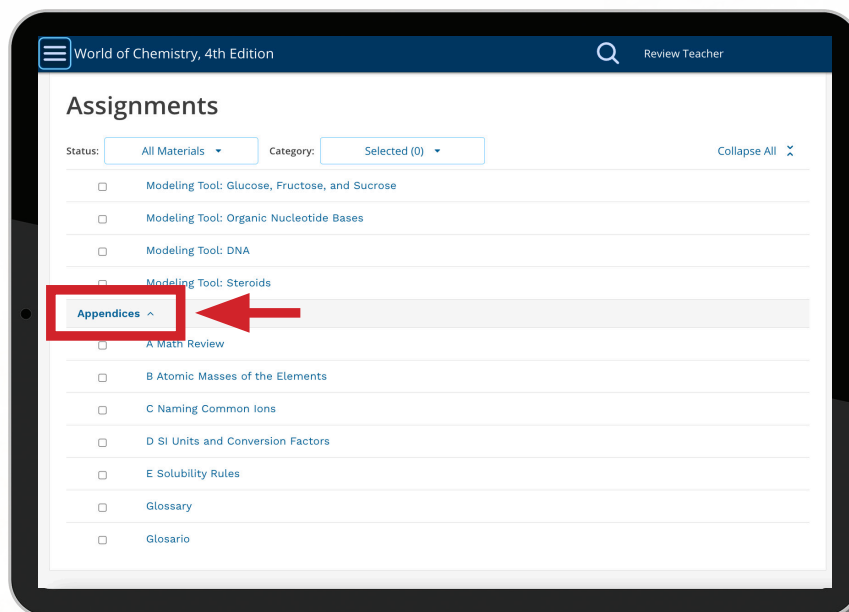
9 Assessments

- Select the 3 horizontal lines in the upper-left corner and **Select Materials**
- Select **Assessments**
- Scroll down to find the various Assessments available in each Chapter



10 Appendices

- Select **Assignments**
- Scroll to the Bottom on the Assignment Tab to view additional Appendices
- Notice Teacher and Students will have everything needed to support student success in the Chemistry Classroom



11 Make it Your Own

- Select the 3 horizontal lines in the upper-left corner and **Select Materials**
- Select **Edit Materials**
- Add a folder, upload a link, move content around to customize the platform to your needs

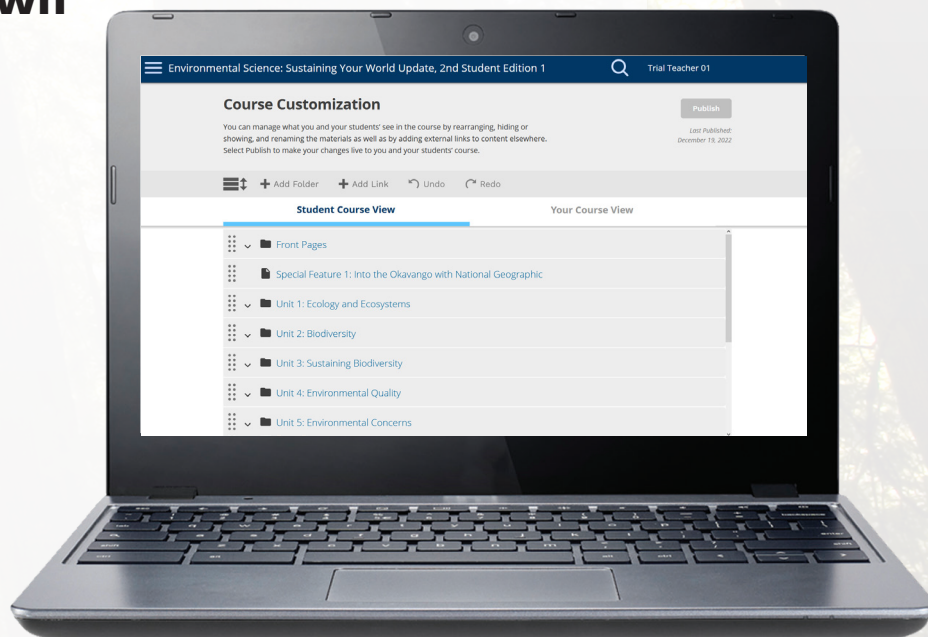
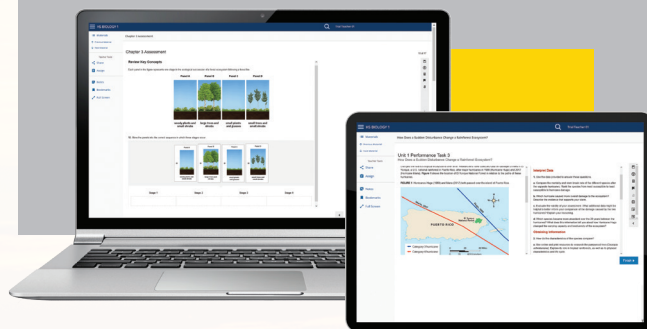


Table of Contents

1. Chemistry: An Introduction
2. Matter
3. Measurements and Calculations
4. Chemical Foundations: Elements, Atoms, and Ions
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6. Chemical Composition
7. Chemical Reactions: An Introduction
8. Reactions in Aqueous Solutions
9. Chemical Quantities
10. Energy
11. Modern Atomic Theory
12. Chemical Bonding
13. Gases
14. Liquids and Solids
15. Solutions
16. Acids and Bases
17. Equilibrium
18. Oxidation-Reduction Reactions and Electrochemistry
19. Radioactivity and Nuclear Energy
20. Organic Chemistry
21. Biochemistry

What's New in the Florida Edition

- **Explorers at Work** features profile the research and problem-solving work of National Geographic Explorers
- Engineering design is integrated through **Exploring Engineering** and **Chemical Engineering** features
- **Case Studies** added for every chapter describe real-world scenarios related to the chapter contents; examples include ocean microplastics and the Flint, Michigan water crisis
- **Problem-solving support** for students includes examples in the text paired with worked out solutions that demonstrate the reasoning used to solve the problem
- **Differentiated learning support** includes leveled practice problems, team-learning worksheets, and a Meeting Individual Needs Toolkit



 Cengage MindTap

Technology

- MindTap is a cloud-based, highly **personalized learning environment** that combines student learning tools—readings, multimedia, activities, and assessments—into a single learning path
- **Teachers can customize** content for their students to introduce their own content, and teachers have access to powerful class reports and analytics to save time, measure progress, and improve outcomes

PREPARING FLORIDA STUDENTS FOR COLLEGE AND CAREER SUCCESS THROUGH THE STUDY OF CHEMISTRY



Students learn:

- ✓ Problem Solving
- ✓ Research Skills
- ✓ Organization
- ✓ Analytical Skills
- ✓ Teamwork
- ✓ Communication Skills
- ✓ To Build an Argument Based on Evidence



For more information, visit
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