

EARTH SYSTEMS

DIGITAL WALKTHROUGH

Texas Edition

Powered by

 Cengage MindTap





DIGITAL WALKTHROUGH

Student And Teacher's Edition

Hello Earth Systems Texas Science Review Leaders,

National Geographic Earth Systems presents the first ever high school program built with National Geographic content, images, and Explorers. Earth Systems presents a rich overview of Earth-related disciplines: exploring the physical attributes of planet Earth and its environment, emphasizing the human choices we have made, and discussing the physical consequences of those choices in the context of Earth systems. The lesson structure purposefully addresses the Texas TEKS to ensure your students meet current science skills and practices by integrating 3-Dimensional learning. Resources are available in print and digitally in the MindTap platform with interactive elements including videos, animations, and assessments.

We look forward to bringing *The World Into Your Texas Classroom* with *National Geographic Earth Systems*.

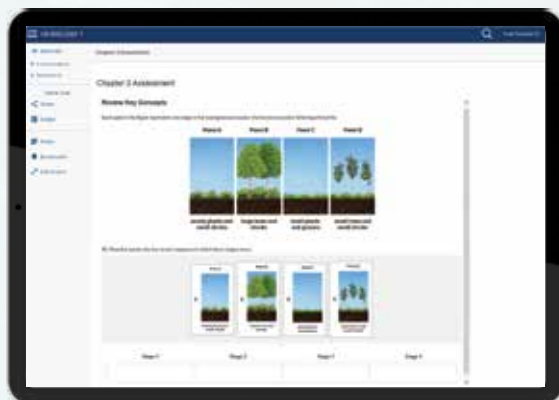
Kind Regards,
Your National Geographic Learning Team



National Geographic Earth + Space Science, © 2024

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



WALKTHROUGH OUR ONLINE PLATFORM

✓ A Step-by-Step Checklist

Login at nglsync.cengage.com/review/COLM

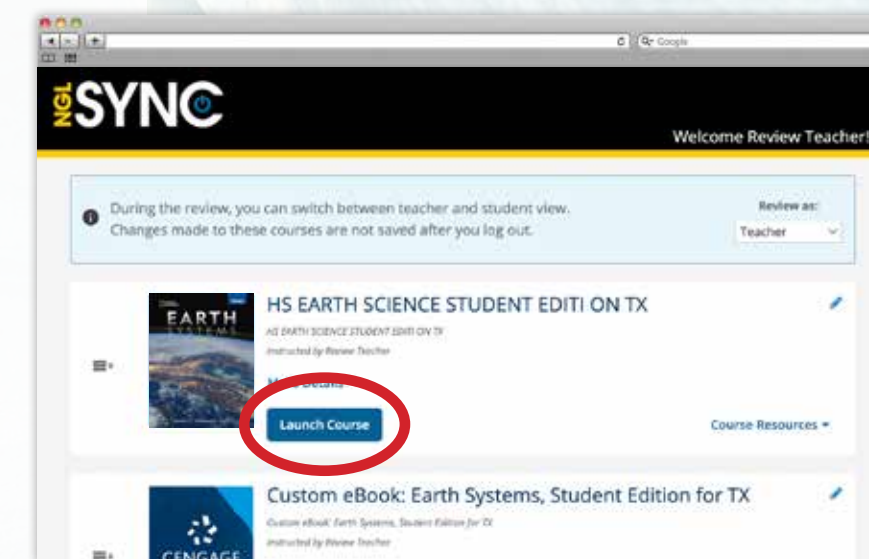
Password: **proc2024**

You will arrive at your course portal

1 Login

- Use the credentials provided to login to the course portal
- Click the **Launch Course** button for the course you would like to access

Note the Course Resources opens a dropdown to access the Cognero online test generator with included earth science test bank.



2 Welcome Launch

- To access the content, **click the three bars icon** in the top left corner



3 Explorers at Work

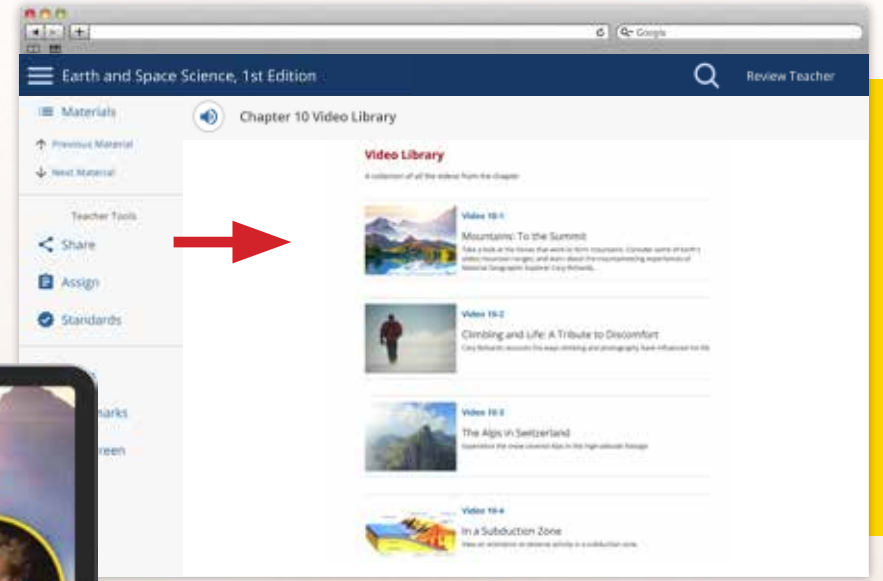
- Click **Materials**
- Click **Student Edition Materials** on the left side of the Materials menu
- Select a **Unit** and **Chapter**
- Select **Explorers at Work**

To see the teacher lesson guidance for the Explorers at Work, click “Teacher Edition Materials” on the left.



5 Chapter Video Library

- Select a **Unit** and **Chapter**
- Click **Chapter Video Library**



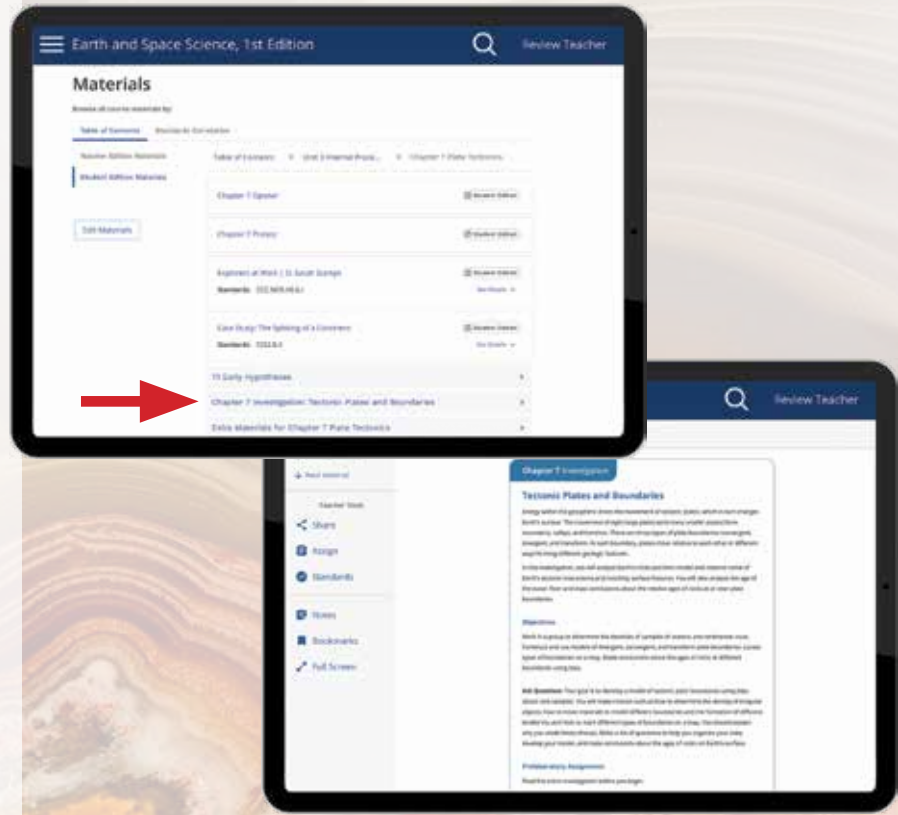
In each Chapter, the National Geographic Explorer Feature Video is listed as Video 1.

4 Chapter Investigations

- Select a **Unit** and **Chapter**
- Click **Chapter Investigation**

A downloadable PDF version of the Chapter Investigations are available in the **Extra Materials** tab in each chapter.

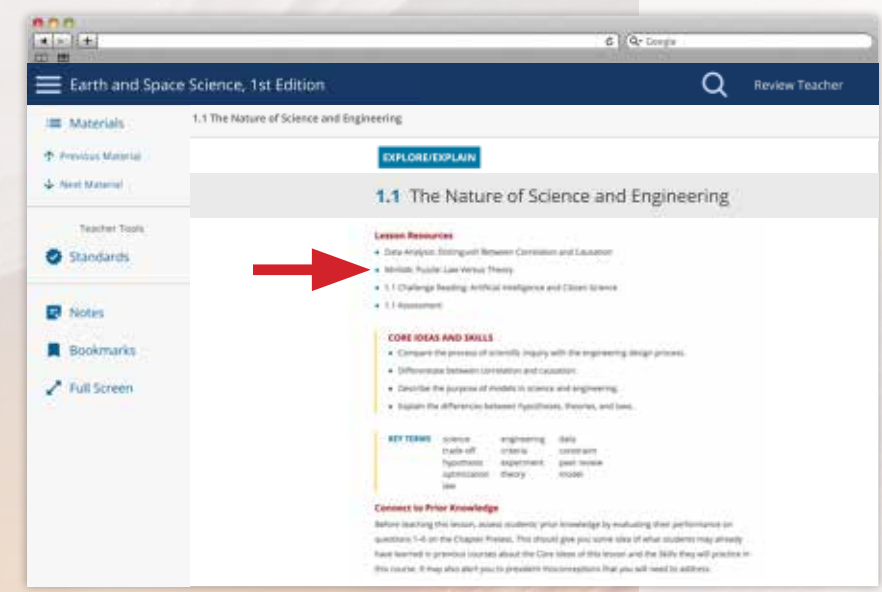
Hint: always click upper left corner Materials button to return to table of contents



6 Minilab

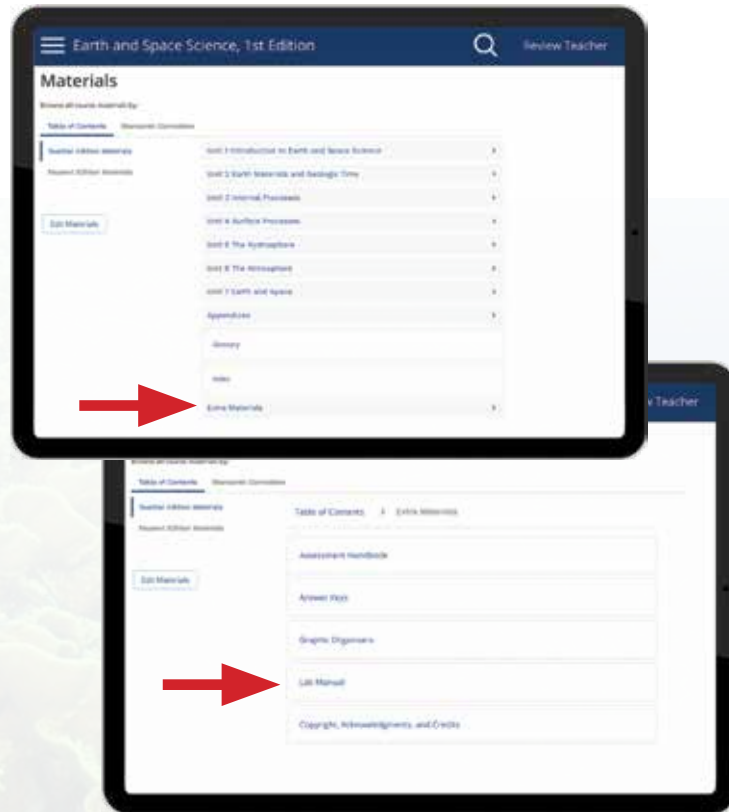
- Select a **Unit** and **Chapter**
- Click a **Chapter Section**

In each Chapter, the Minilab is embedded within the chapter sections they are associated with for that chapter (sections vary by chapter).



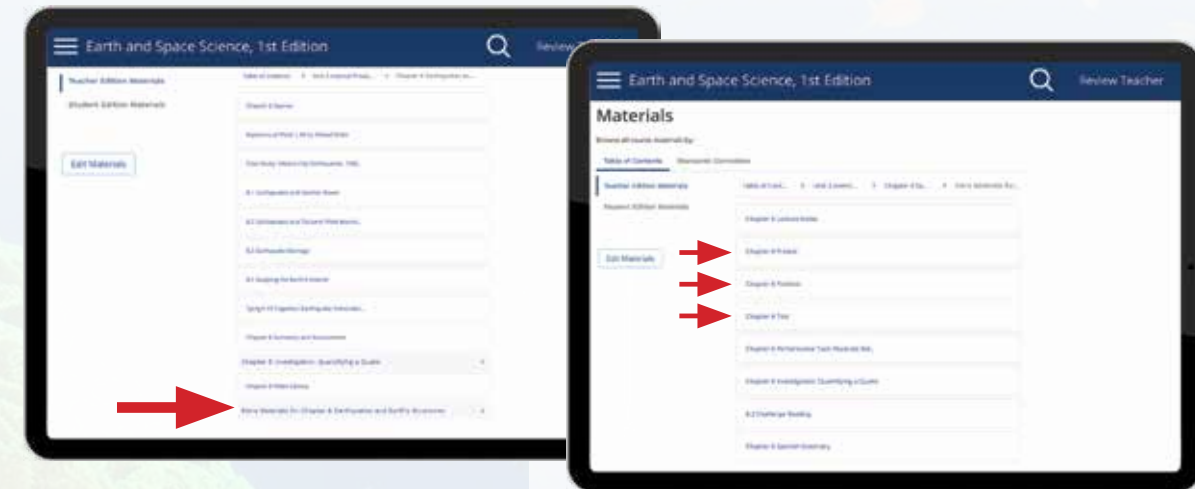
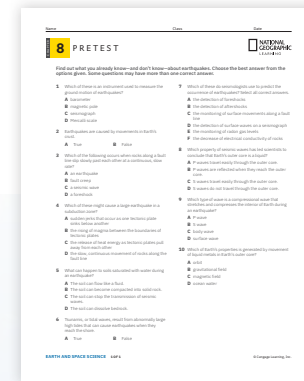
7 Lab Manual

- Click **Materials**
- Click **Extra Materials**
- Click **Lab Manual** to view the full Teacher's Lab Manual PDF

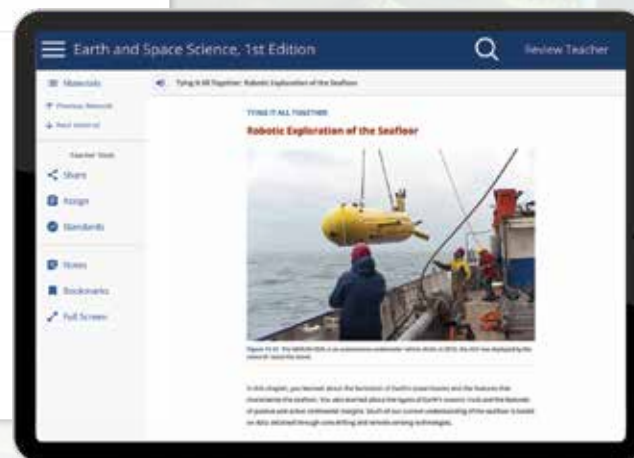
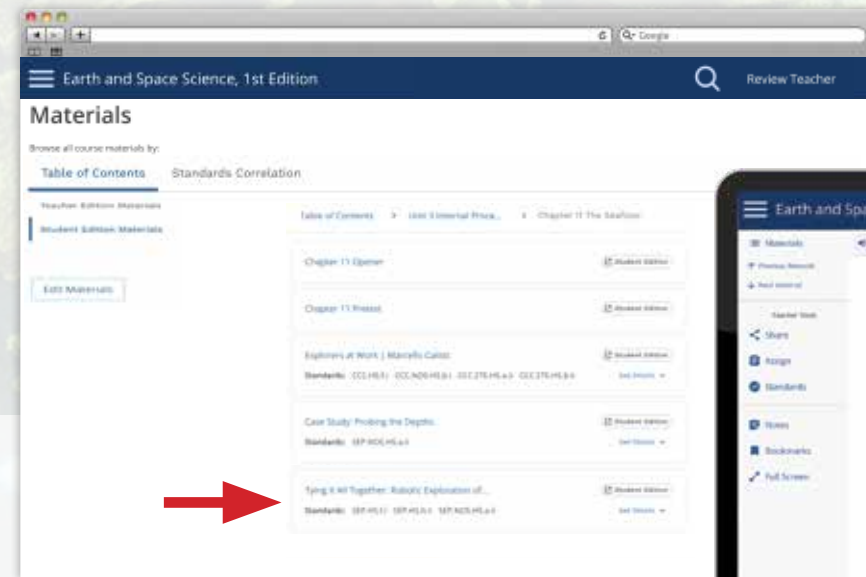


9 Pretest, Post-test, Test

- Select **Unit** and **Chapter**
- Click **Extra Materials**
- Click the **Pretest, Post-test, and Test** to view and download those assessments

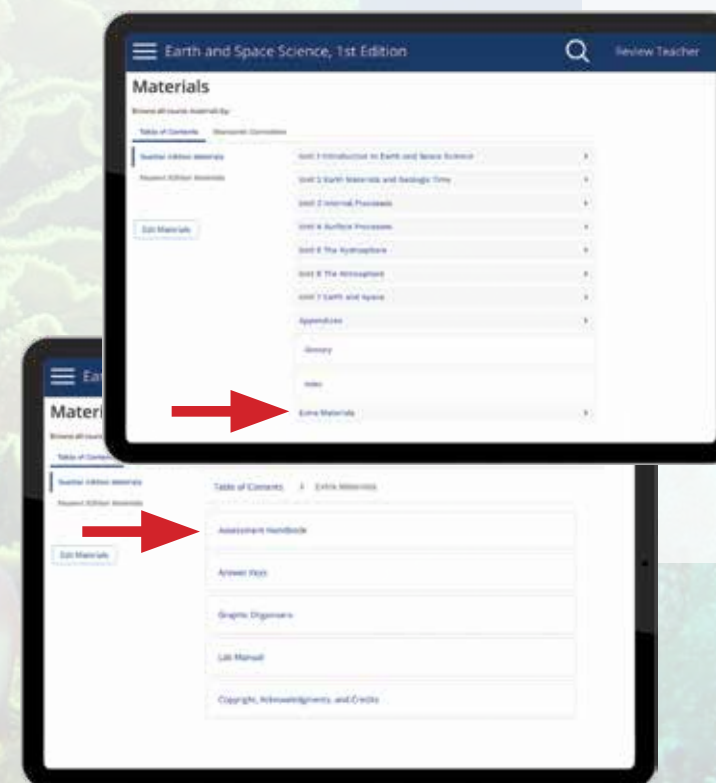


8 Tying It All Together



10 Assessment Handbook

- Click **Extra Materials** at the bottom of the Table of Contents
- Click **Assessment Handbook** to view or download the full PDF



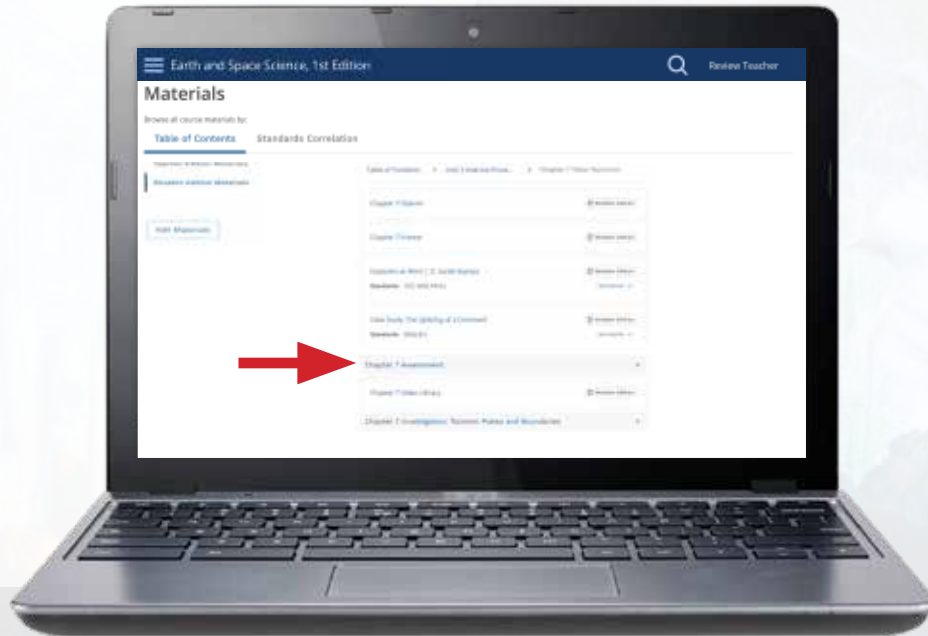
Hint: always click upper left corner Materials button to return to table of contents

- Click **Student Edition Materials** on the left side of the Materials menu
- Select a **Unit** and **Chapter**
- Click **Tying It All Together**

11 Chapter Performance Task

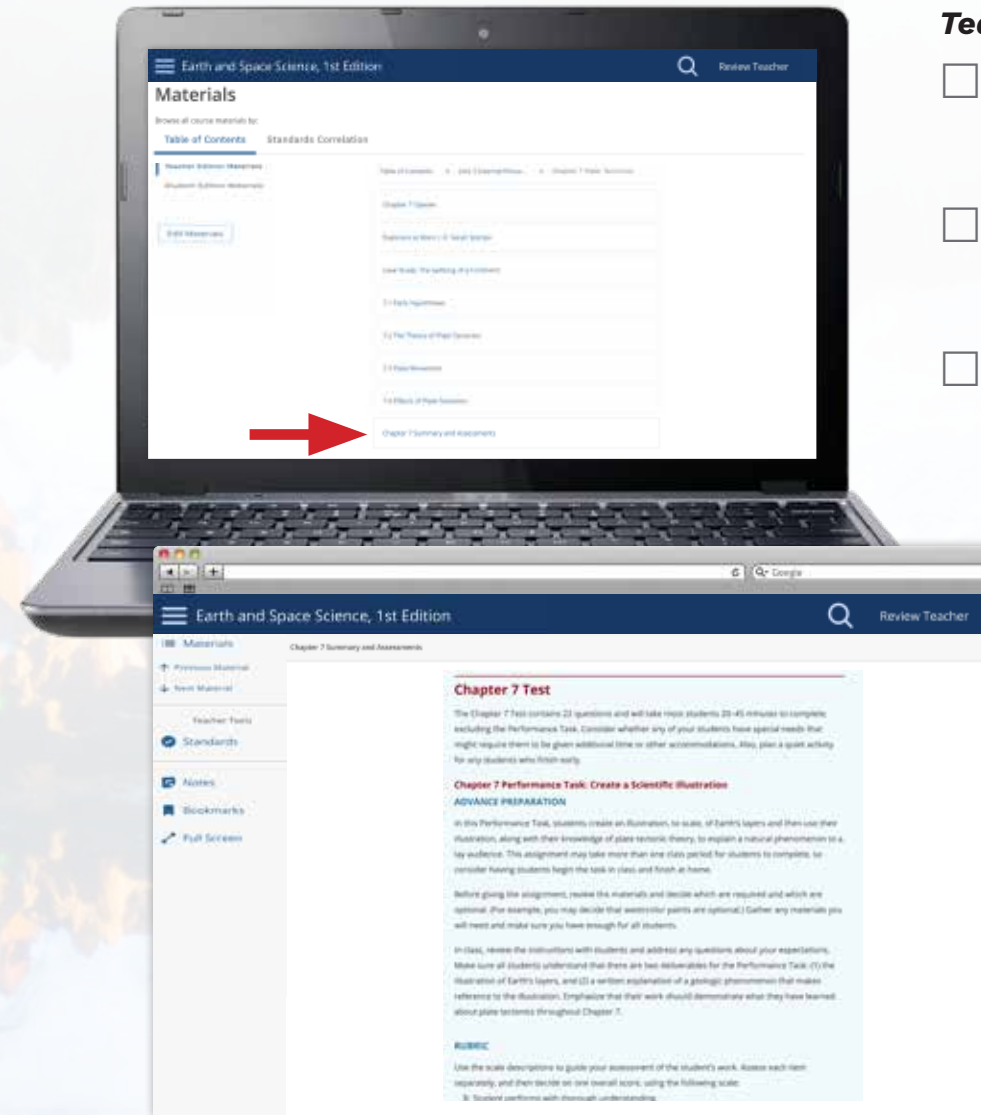
Student View

- Select **Student Edition Materials** listed under the Table of Contents
- Select a **Unit** and **Chapter**
- Select **Chapter Assessment**
- Select **Chapter Performance Task**

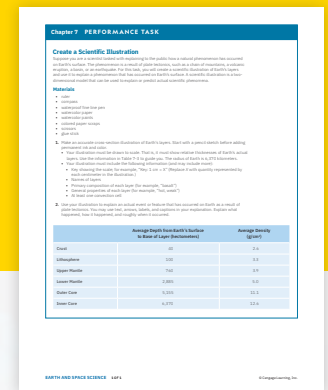


Teacher View

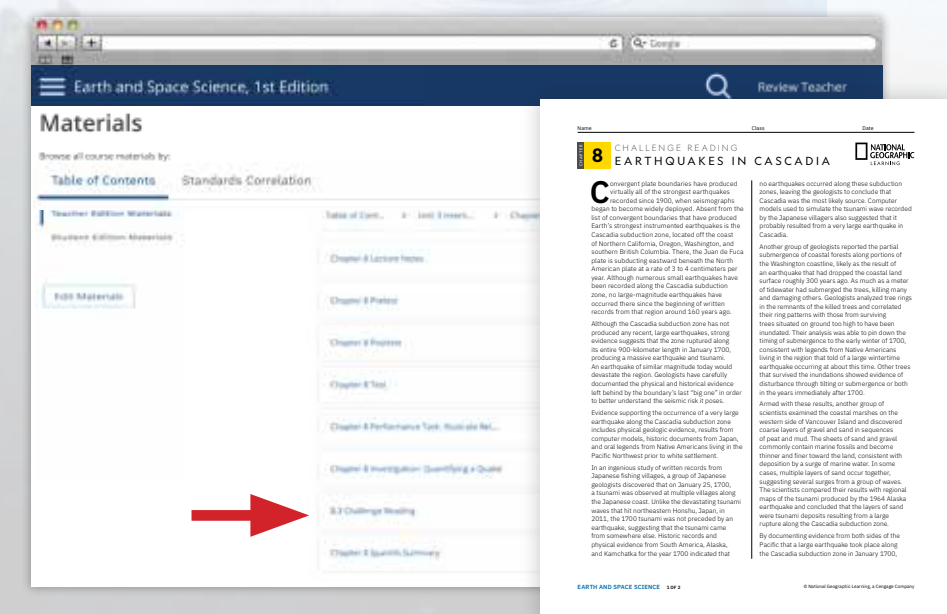
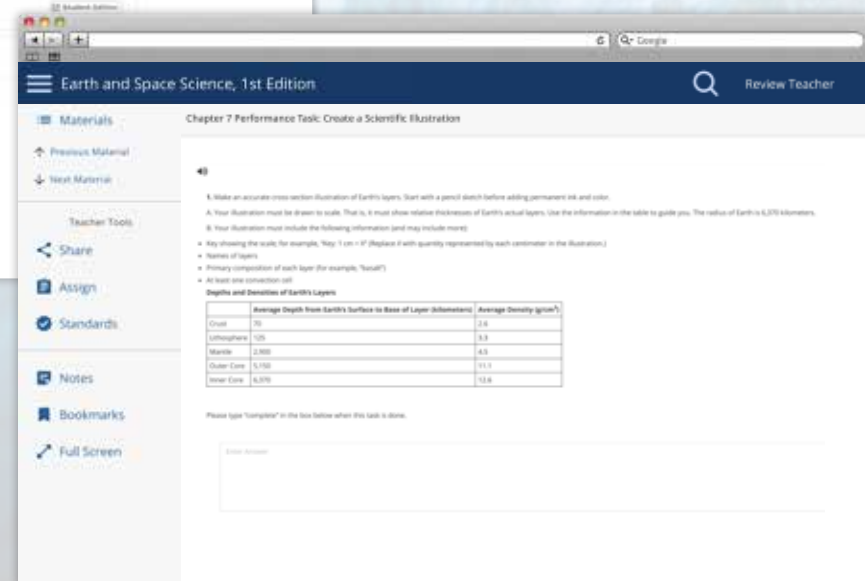
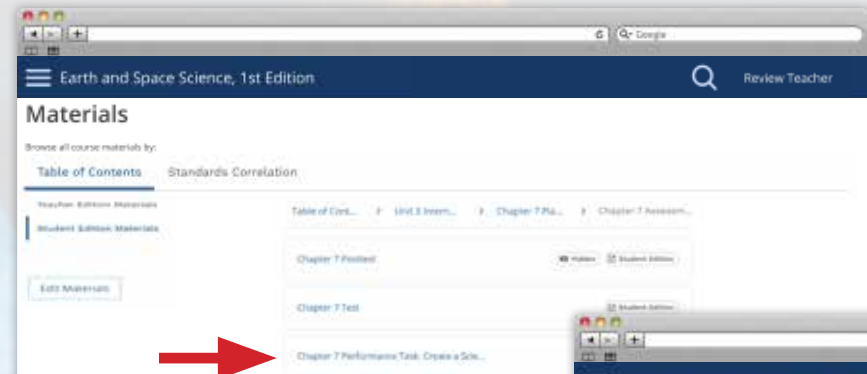
- Select **Teacher Edition Materials** listed under the Table of Contents
- In each chapter, click the **Chapter Summary and Assessments** tab
- Scroll down to the red header for the **Performance Task** to see teacher activity support and a teacher rubric



NOTE: Teachers can also view and download a PDF version of the student Performance Task from the Chapter Extra Materials folder.



Hint: always click upper left corner Materials button to return to table of contents



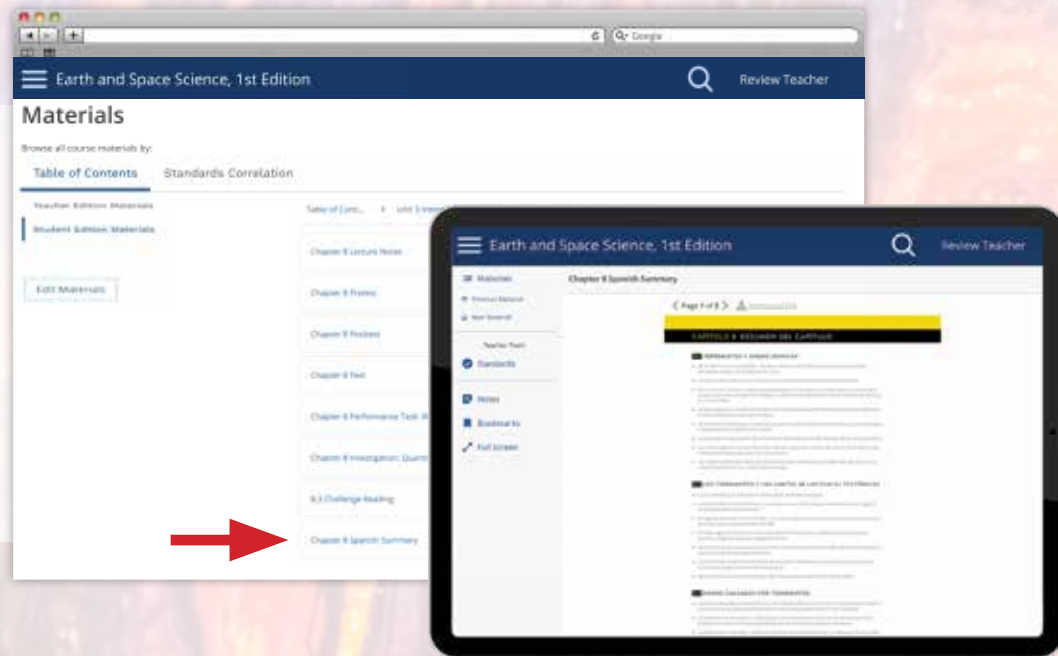
12 Challenge Reading

For Chapters 1, 3, 4, 6, 7, 8, 13, 15, 21, and 24:

- From the Teacher Edition Materials for the Chapters above, click **Extra Materials**
- Click the **Challenge Reading** link

13 Chapter Spanish Summary

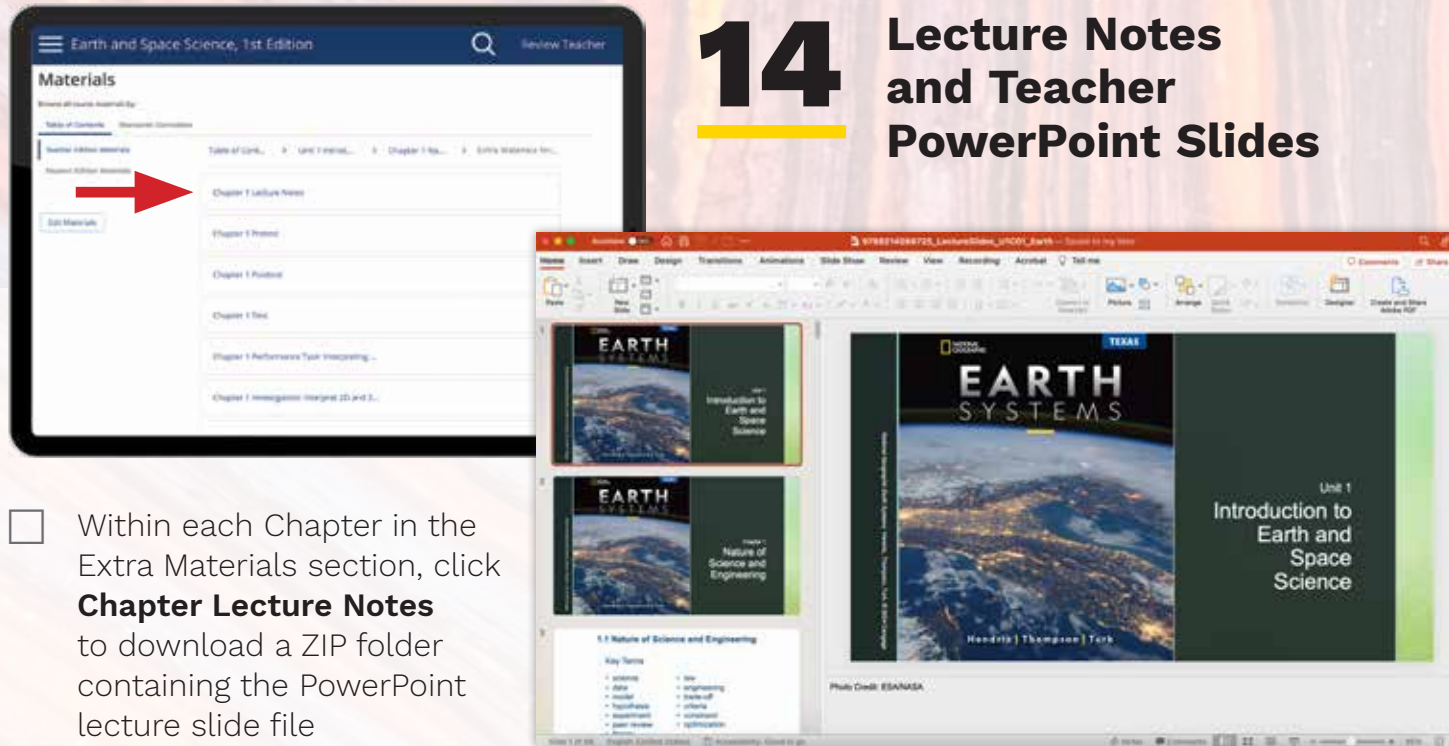
- Within each Chapter in the Extra Materials section, click the **Chapter Spanish Summary** tab to view and download the PDF



Hint: always click upper left corner Materials button to return to table of contents

14 Lecture Notes and Teacher PowerPoint Slides

- Within each Chapter in the Extra Materials section, click **Chapter Lecture Notes** to download a ZIP folder containing the PowerPoint lecture slide file



Earth Systems Units of Study | Table of Contents

UNIT 1 Introduction to Earth and Space Science

1. Nature of Science and Engineering
2. Earth Systems and Cycles

UNIT 2 Earth Materials and Geologic Time

3. Minerals
4. The Rock Cycle
5. Geologic Time
6. Mineral and Energy Resources

UNIT 3 Internal Processes

7. Plate Tectonics
8. Earthquakes and Earth's Structure
9. Volcanoes
10. Mountains
11. The Sea Floor

UNIT 4 Surface Processes

12. Weathering, Erosion, and Deposition
13. Glaciers
14. Deserts
15. Soil Resources

UNIT 5 The Hydrosphere

16. Fresh Water
17. Oceans and Coastlines
18. Water Resources

UNIT 6 The Atmosphere

19. The Atmosphere
20. Energy Balance in the Atmosphere
21. Weather
22. Climate and Climate Change

UNIT 7 Earth and Space

19. The Study of Space
20. Our Solar System
21. Stars
22. Galaxies and the Universe

Features

- Explorers at Work features profile the research and problem-solving work of National Geographic Explorers, each accompanied by an Explorer video in MindTap
- The MindTap online platform provides an interactive eBook with concept videos and animations, and digital assessments including performance tasks and data analysis activities with downloadable datasets
- Presents a rich overview of Earth-related disciplines: exploring the physical attributes of planet Earth and its environment, emphasizing the human choices we have made, and discussing the physical consequences of those choices in the context of Earth systems



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 easily customize learning tools for their students, seamlessly introducing their own content, and also have access to powerful class reports and analytics to help save time, measure progress, and improve outcomes



Texas Edition

PREPARING TEXAS STUDENTS FOR COLLEGE AND CAREER SUCCESS THROUGH THE STUDY OF EARTH SYSTEMS



Students learn:

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



To review and learn more
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