



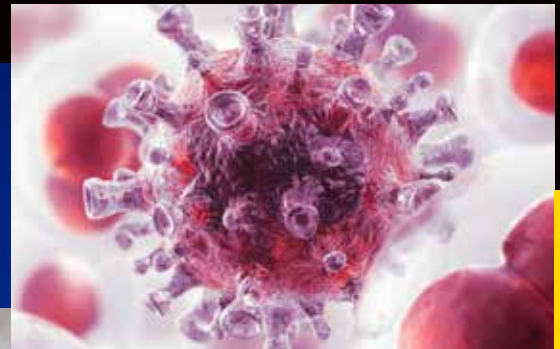
BIOLOGY

DIGITAL WALKTHROUGH

Texas Edition

Powered by

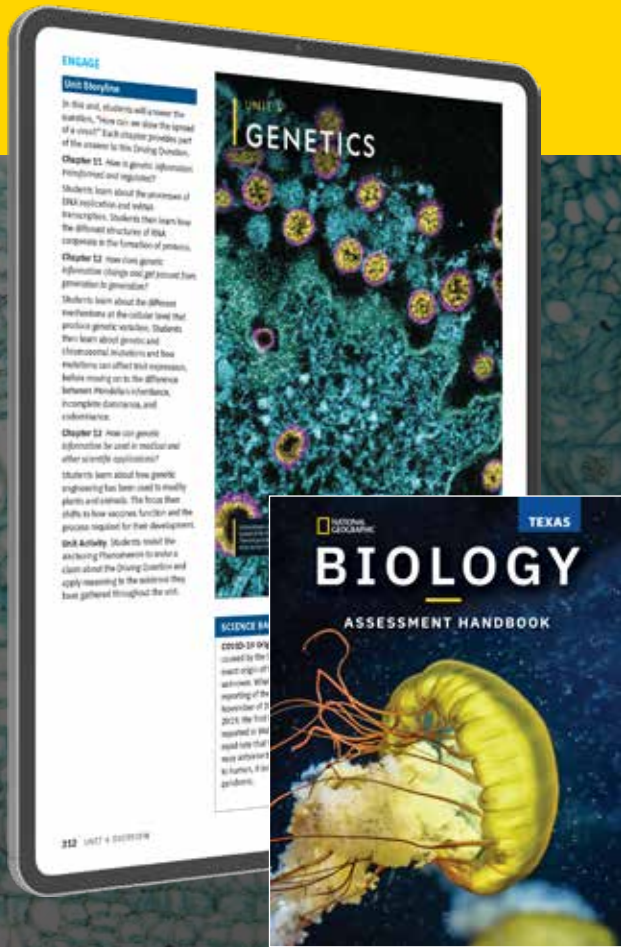
Cengage MindTap





DIGITAL WALKTHROUGH

Student And Teacher's Edition



National Geographic Biology, © 2024

Hello Texas Biology Review Members,

National Geographic Biology is the first high school Biology program created with National Geographic images, photography, and Explorers; a diverse group of scientists and engineers hand-picked by National Geographic for their innovation and storytelling. Texas Students will build their fundamental biology knowledge with 3-dimensional, phenomena-based lessons with engaging text and visuals, hands-on labs and investigations, and a powerful digital platform. MindTap includes an interactive eBook with embedded videos featuring National Geographic Explorers, interactive simulations, and Virtual Labs that transport students alongside Explorers to different sites for virtual adventures and research.

We look forward to **Bringing The World Into Your Texas Classroom** with **National Geographic Biology**.

Kind Regards,
Your National Geographic Learning Team

WALKTHROUGH OUR ONLINE PLATFORM

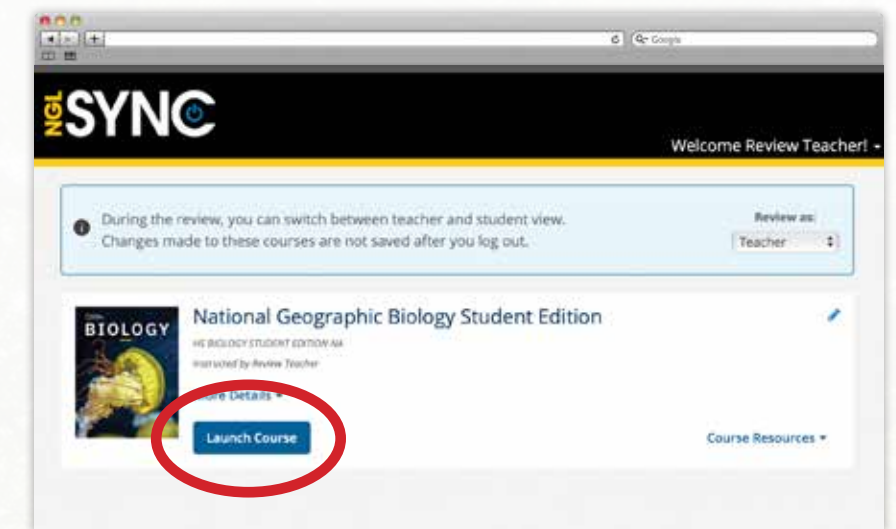
✓ A Step-by-Step Checklist

Login at nglsync.cengage.com/review/HBDF
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



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:

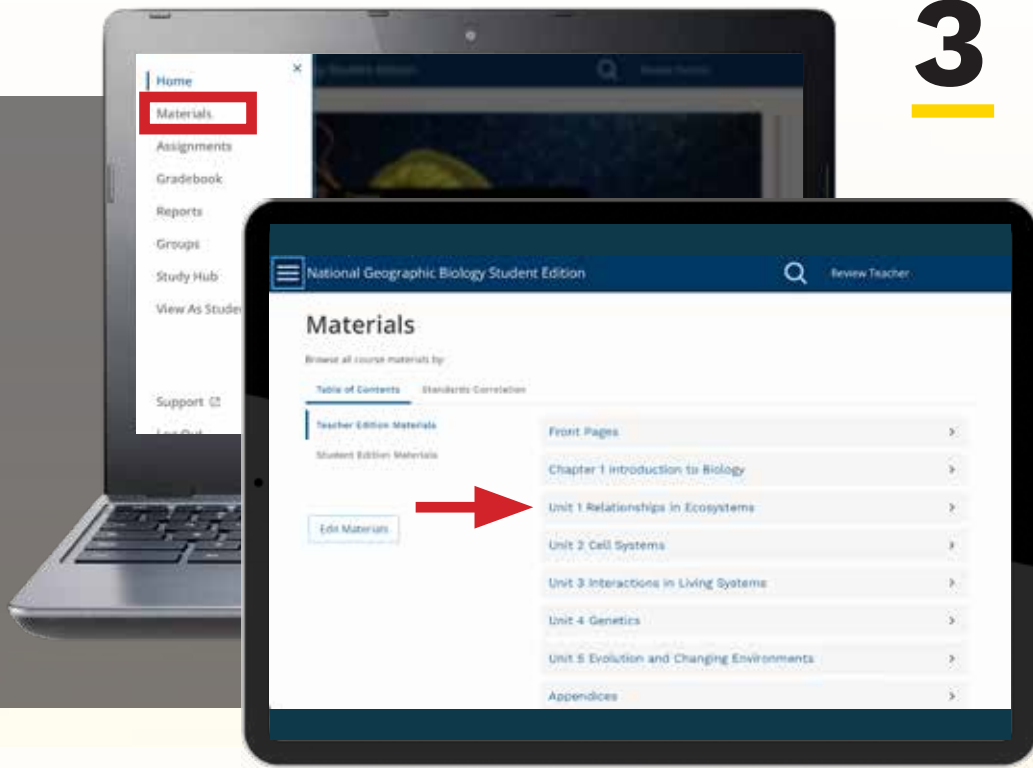
Our digital courseware solutions support your instruction and put students at the center of learning.

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

2 Welcome Launch

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





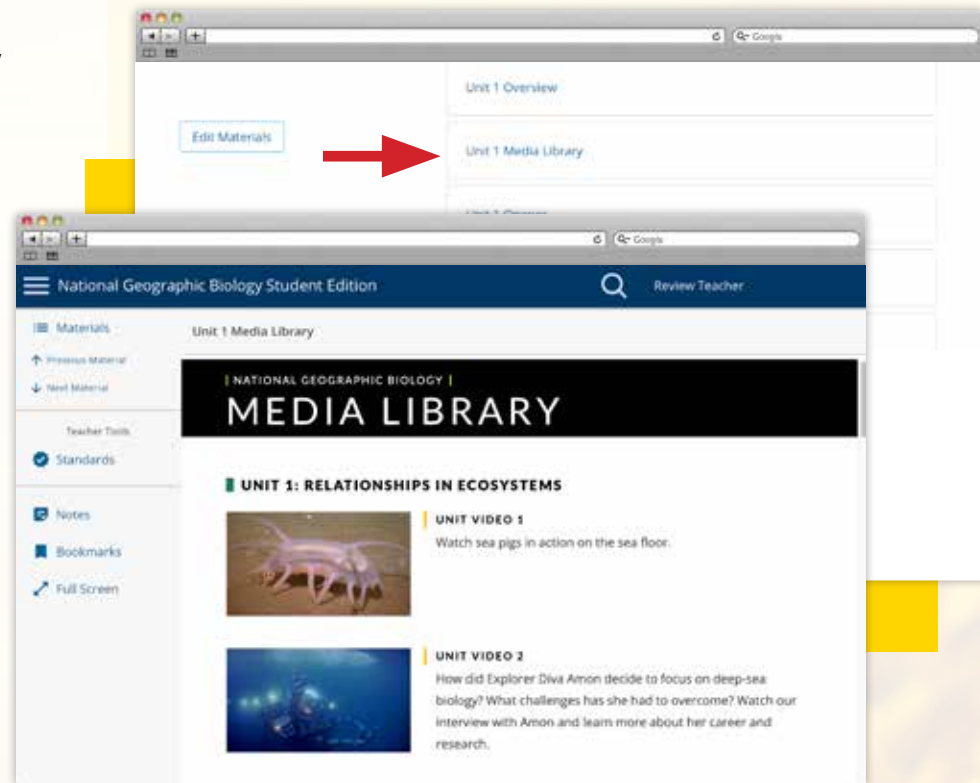
3 Drop Down Menu

- Click **Materials**
- View the **Table of Contents** as well as the **Standards Correlations**
- Click a **Unit** to explore

4 Media Library

- Click **Media Library**
- Browse this section to review:
 - Unit Video
 - Unit Explorer Interview Video
 - Lesson Videos
 - Simulations & Interactive Figures

These can be found in the media library for both the unit and the chapter. They are located after the videos for each chapter.

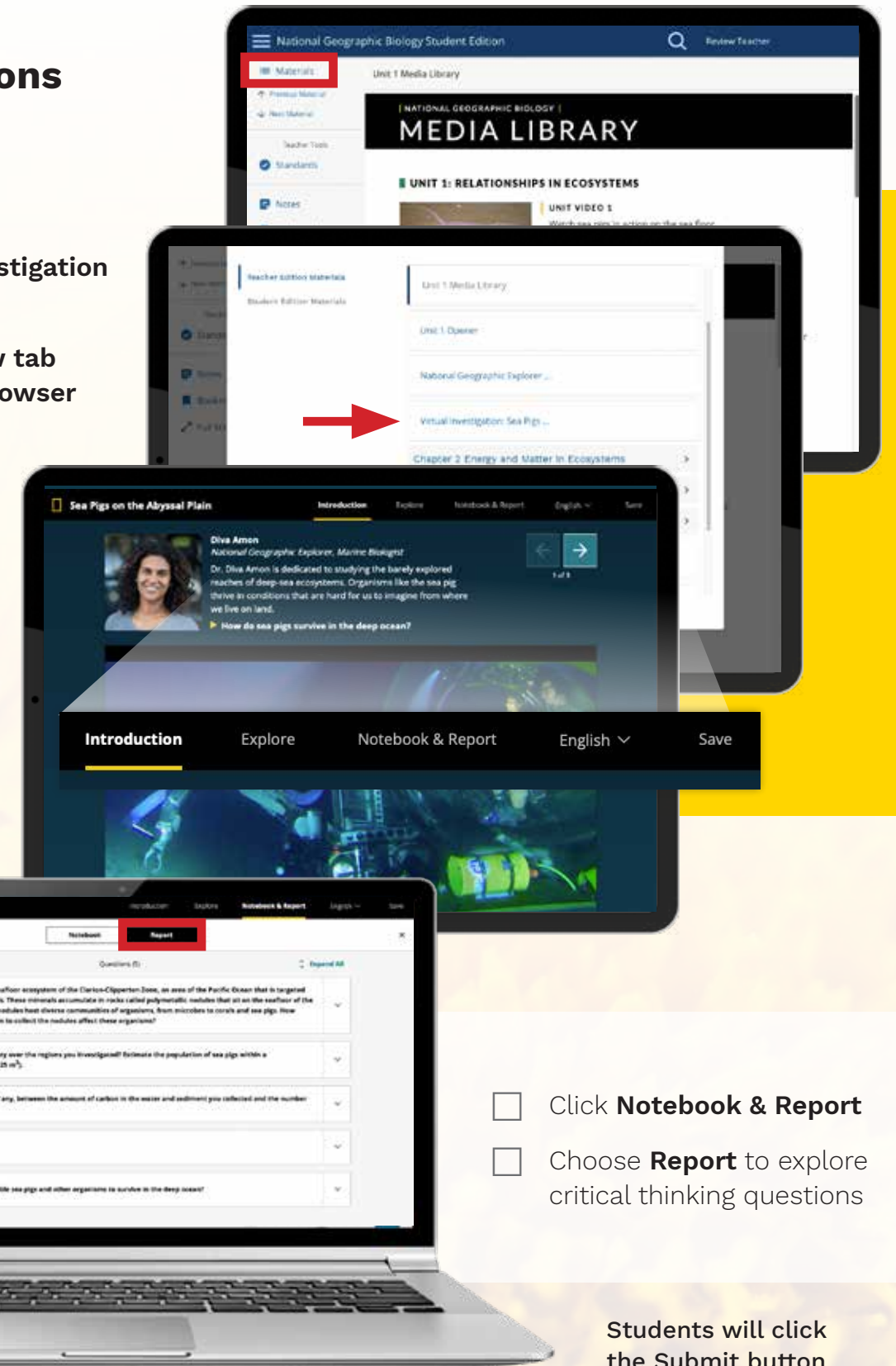


Hint: always click upper left corner **Materials** button to return to table of contents

5 Virtual Investigations

- Click **Materials**
- Select a Unit
- Choose **Virtual Investigation**
- Launch the **Virtual Investigation**, a new tab will open in your browser
- Navigate top tabs **Introduction, Explore, Notebook & Report**

The **Objectives** of the Virtual Investigation are on the last page of the Introduction screens

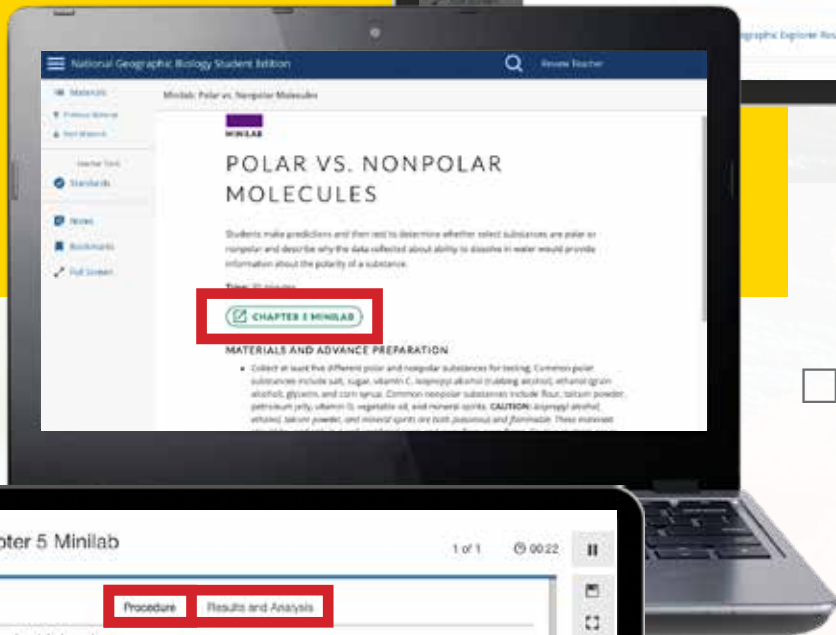
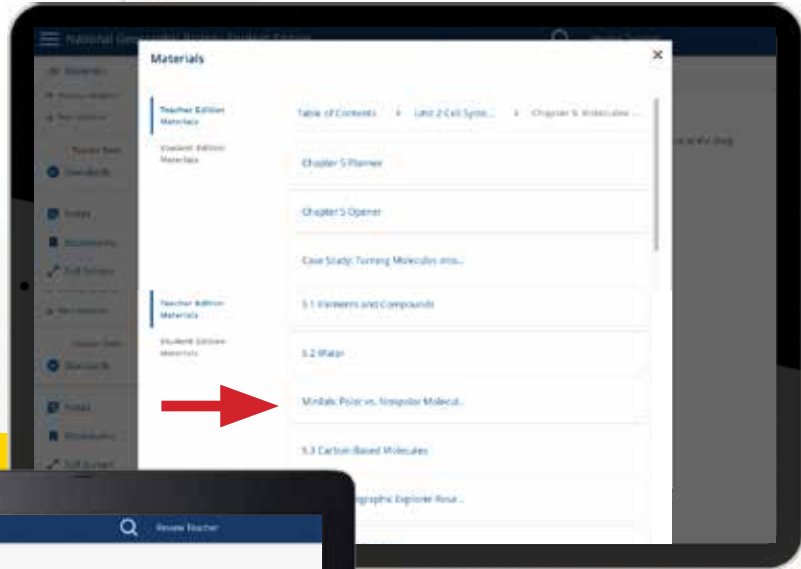
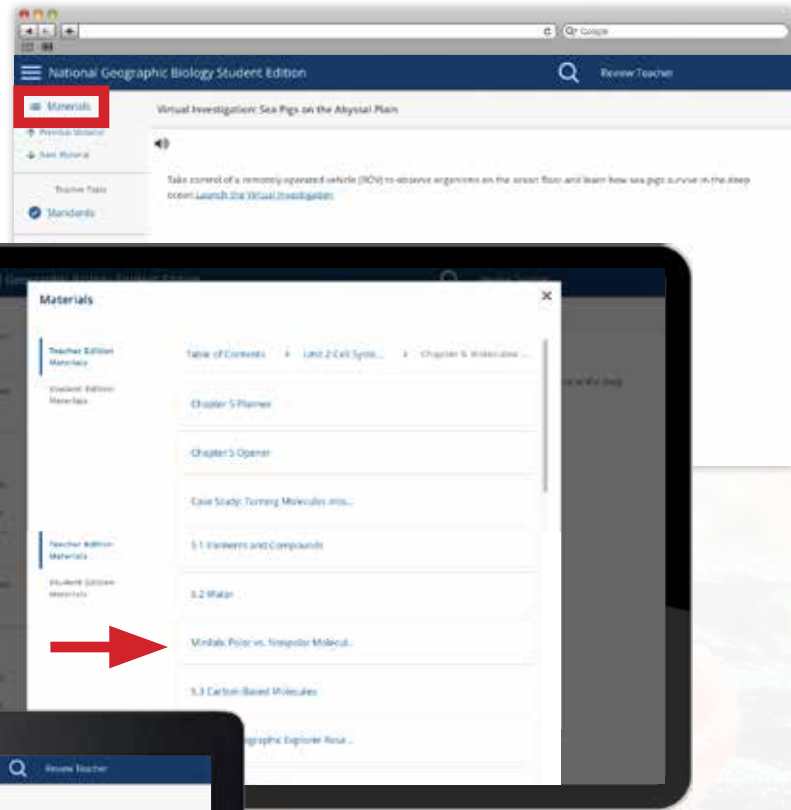


- Click **Notebook & Report**
- Choose **Report** to explore critical thinking questions

Students will click the **Submit** button upon completion.

6 Chapter Resources & Minilabs

- Return to the Teacher Edition tab in your browser and choose **Materials**
- Choose a chapter to explore
- Click **Minilab**

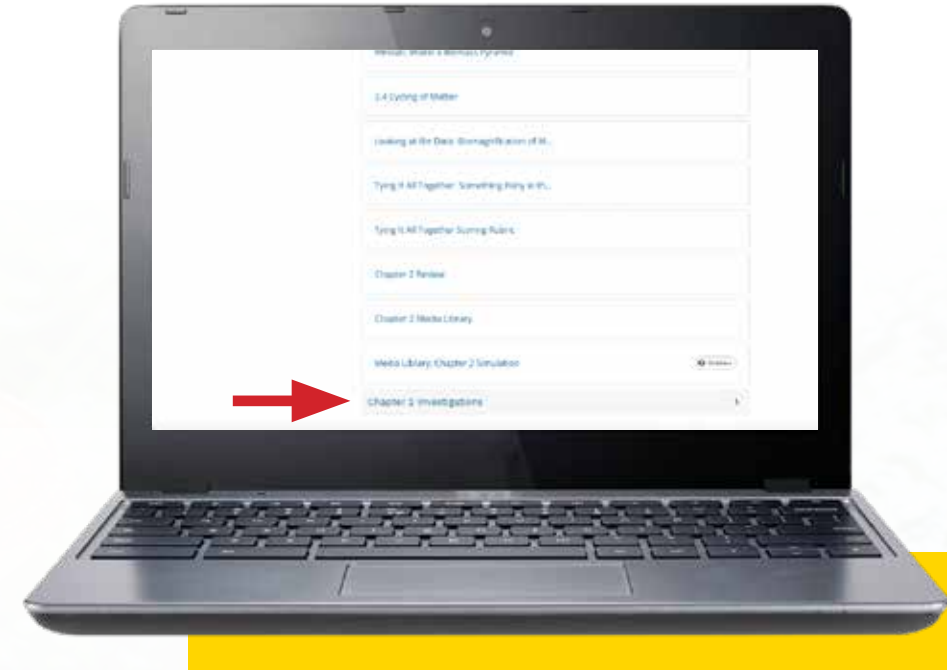


- Review teacher notes, then click the **Green Minilab Icon** to launch

- Use top tab to review the **Procedure**
- Click **Results and Analysis** to submit evaluations

7 Chapter Investigations

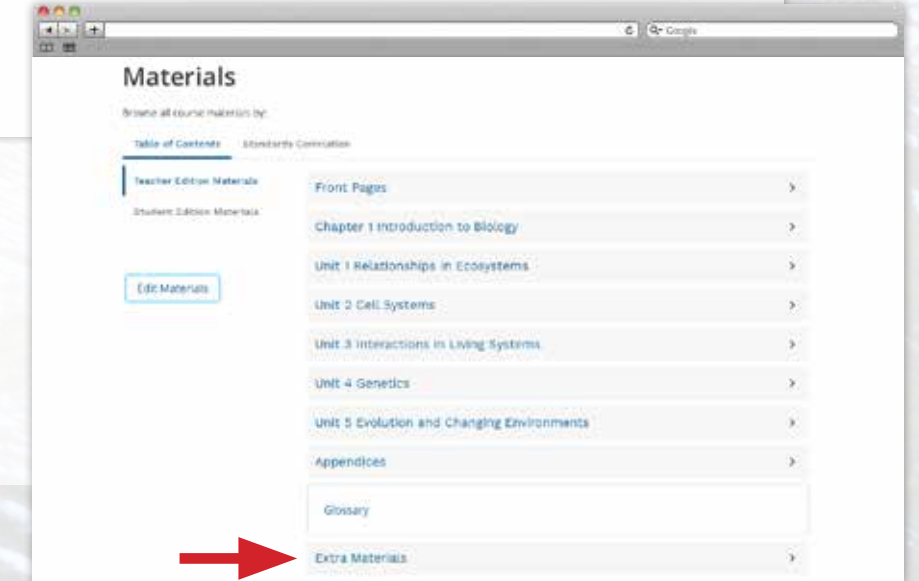
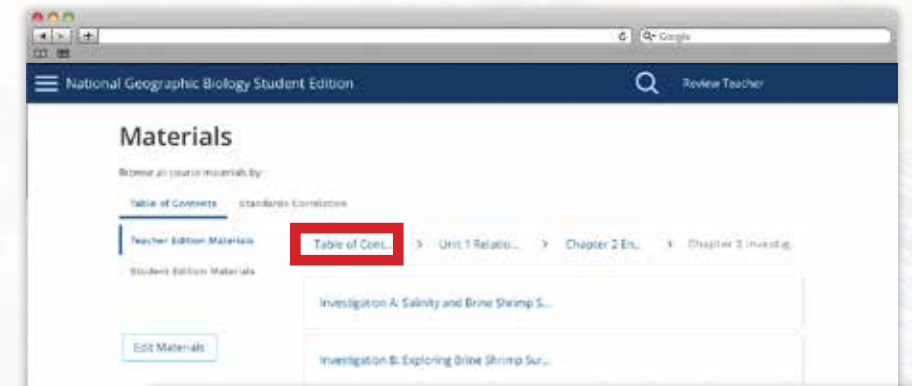
- Click Back in your browser and again choose **Materials**
- Choose a Chapter and scroll down to select **Chapter Investigations**
- Pick from the two available investigations



Note “extra materials” for these investigations

8 Lab Manual

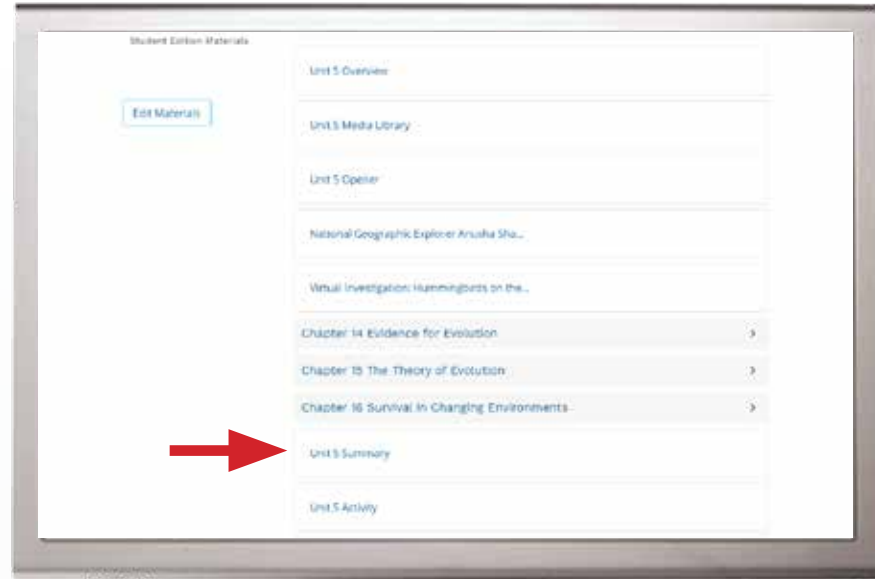
- Click **Table of Contents** on the top
- Scroll down and click **Extra Materials**
- Review teacher resources including:
 - Handouts & rubrics
 - Teachers lab manual
 - Lecture Notes



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

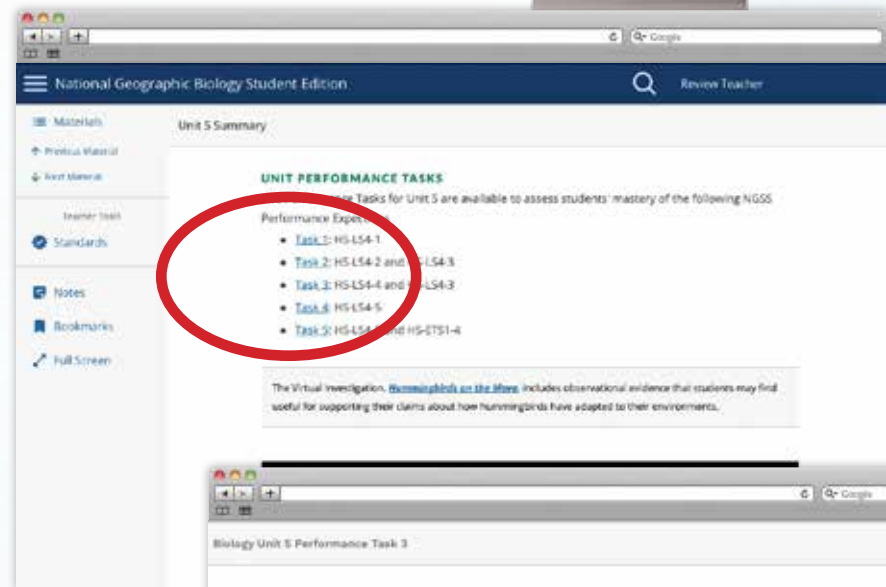
9 Unit Activities, Performance Tasks, and Assessments

- Go to **Table of Contents** click the unit you would like to review for assessments
- Click **Unit Summary**

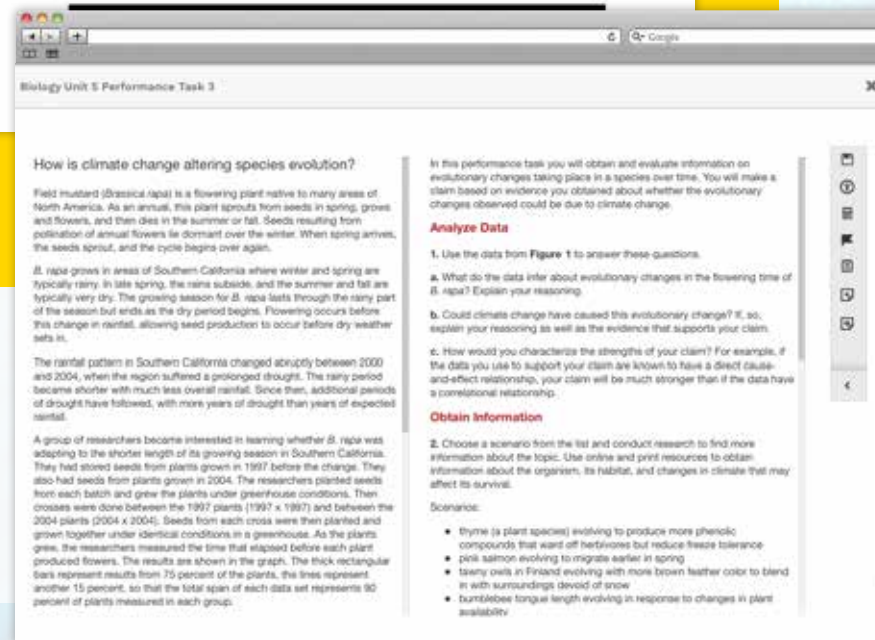


- Click and select a **Performance Task** to review

Unit performance tasks authentically assess performance expectations

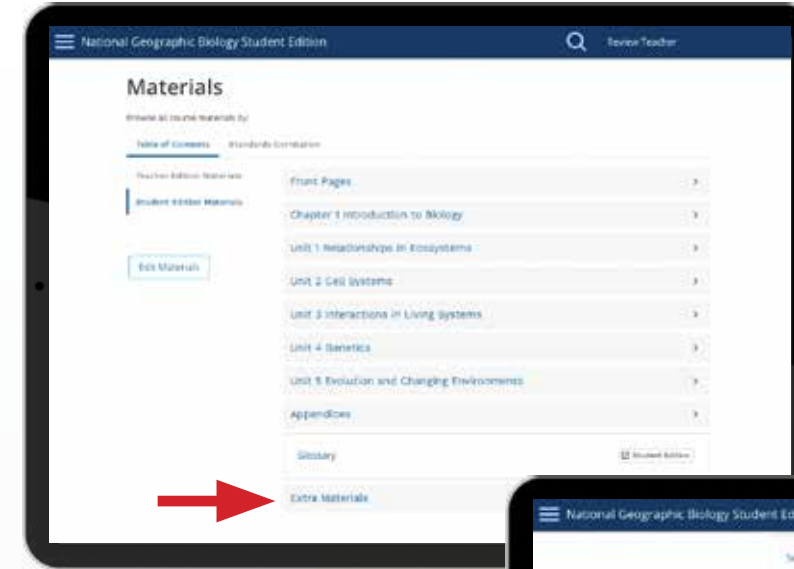


- Return to the Materials, select a Unit, click the Unit Activity to see instruction for the **Claim, Evidence, Reasoning (CER)** activity



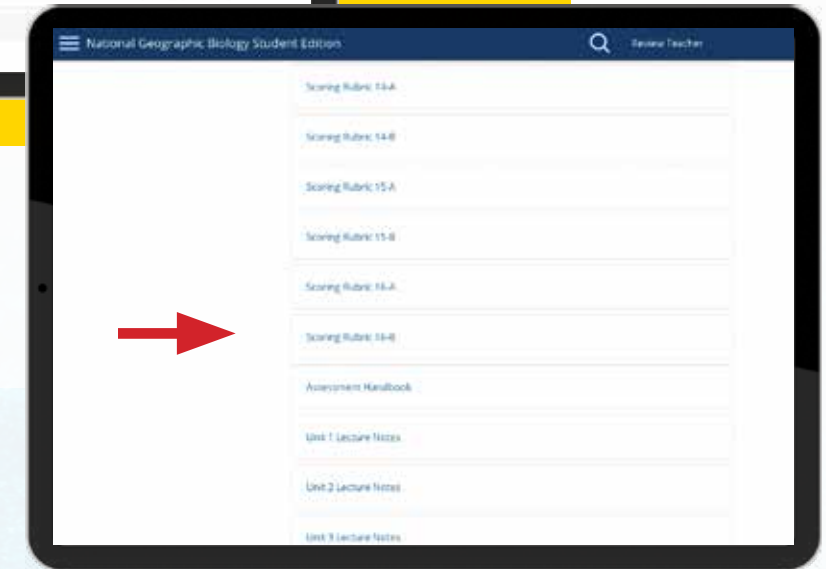
10 Assessment Handbook

- Select **Table of Contents**
- Click **Extra Materials**

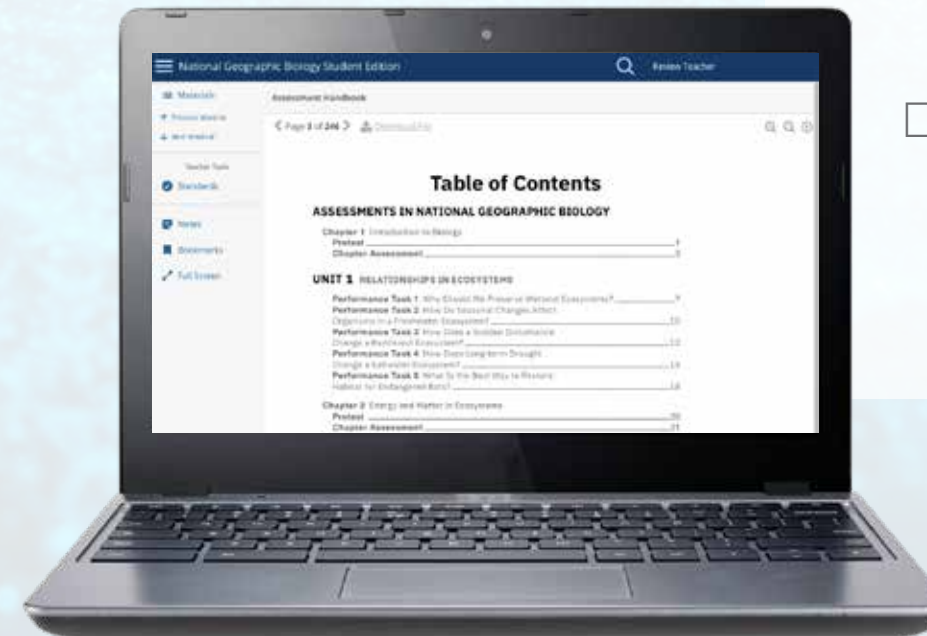


- Scroll down and click **Assessment Handbook**

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



- Access full Teacher Assessment Handbook including: **Pretest, Chapter Assessments, and Performance Tasks**



Texas Biology Units of Study | Table of Contents

1. Introduction To Biology

UNIT 1 Relationships In Ecosystems

- 2. Energy and Matter In Ecosystems
- 3. Biodiversity and Ecosystem Stability
- 4. Population Measurement and Growth

UNIT 2 Cell Systems

- 5. Molecules In Living Systems
- 6. Cell Structure and Function
- 7. Cell Growth

UNIT 3 Interactions In Living Systems

- 8. Diversity Of Living Systems
- 9. Plant Systems
- 10. Animal Systems

UNIT 4 Genetics

- 11. DNA, RNA, and Proteins
- 12. Genetic Variation and Heredity
- 13. Genetic Technologies

UNIT 5 Evolution and Changing Environments

- 14. Evidence For Evolution
- 15. The Theory Of Evolution
- 16. Survival In Changing Environments

Appendices

- Lab Safety and Procedures
- Data Analysis Guide
- Cell Processes: Respiration and Photosynthesis
- The Periodic Table
- Taxonomies and Classification

Features

- 3-Dimensional lessons created with science and engineering practices and Cross-Curricular concepts to support the disciplinary core idea content
- Phenomena-based instruction geared towards students figuring out how the phenomenon works in the real world through investigation and discovery
- Diverse National Geographic Explorers, photography, and graphics show real-world phenomena and inspire students to think like real scientists
- The MindTap digital platform includes rich media such as virtual labs, simulations, and videos featured throughout
- Data analysis and data literacy activities promote critical thinking and analysis skills
- Literacy and language support including modified text in the ebook to toggle between two reading levels, english and spanish text and assessments available



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
- MindTap for biology offers unique digital activities including videos featuring national geographic explorers, interactive simulations, and a series of virtual labs to provide students experience with real world research and lab scenarios

Notes



Texas Edition

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



Students learn:

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



To review and learn more
NGL.Cengage.com/TX-Science

@NatGeoLearning



@ExploreInside



@NatGeoLearning



"National Geographic", "National Geographic Society" and the Yellow Border Design are registered trademarks of the National Geographic Society. ©Marcas Registradas.

JULY / 2023

ISBN-13: 979-8-214-08324-7

90000



9 798214 083247