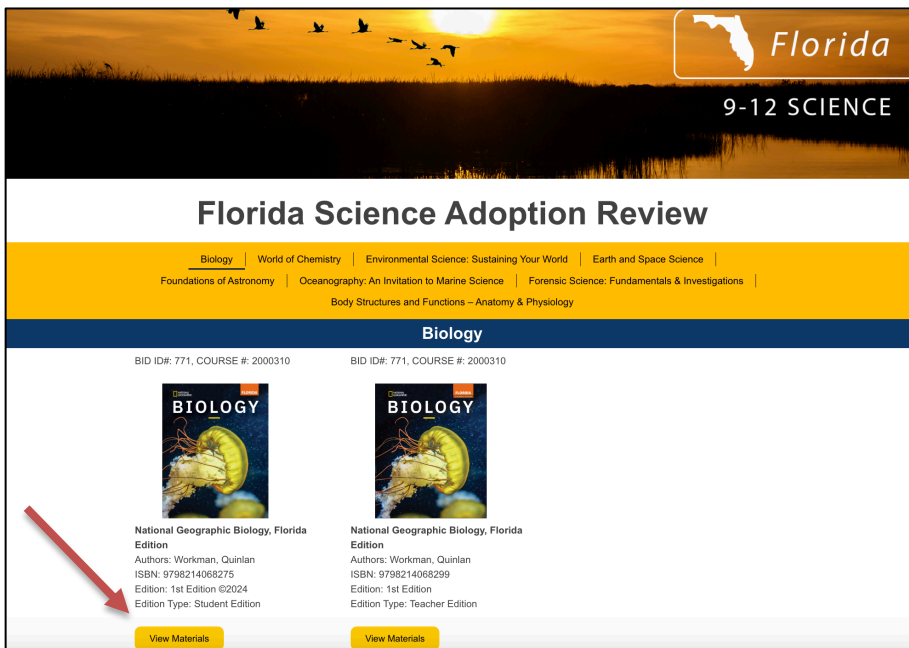


## 2023-2024 Florida Science Instructional Materials

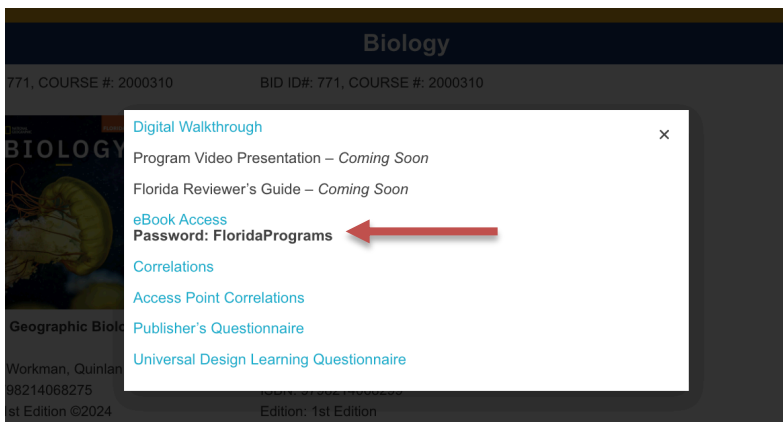
### Review Instructions for the eBook represented by National Geographic Learning, a part of Cengage

**Step 1:** Select a Student eBook by clicking **View Material** for the course you wish to review.



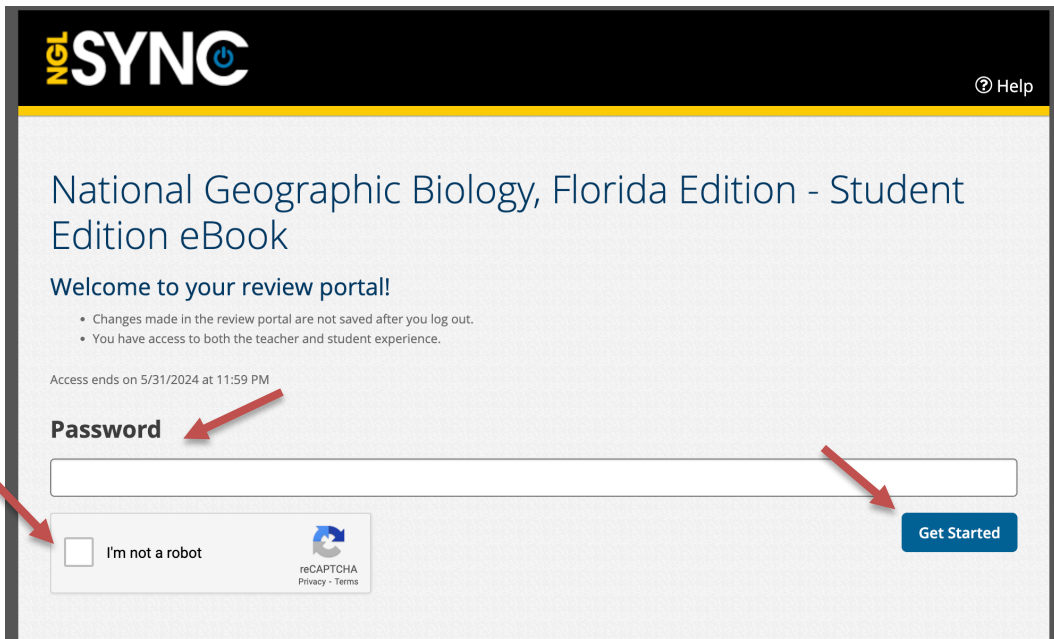
The screenshot shows the "Florida Science Adoption Review" website. At the top, there is a banner for "Florida 9-12 SCIENCE". Below this is a navigation bar with categories: Biology, World of Chemistry, Environmental Science: Sustaining Your World, Earth and Space Science, Foundations of Astronomy, Oceanography: An Invitation to Marine Science, Forensic Science: Fundamentals & Investigations, and Body Structures and Functions – Anatomy & Physiology. The "Biology" category is selected. Two eBook options are displayed, both with the title "National Geographic Biology, Florida" and the same cover image of a jellyfish. The left option is the "Student Edition" (ISBN: 9798214068275) and the right is the "Teacher Edition" (ISBN: 9798214068299). A red arrow points to the "View Materials" button under the Student Edition.

**Step 2:** Click **eBook Access** in the pop-up menu to open the eBook.

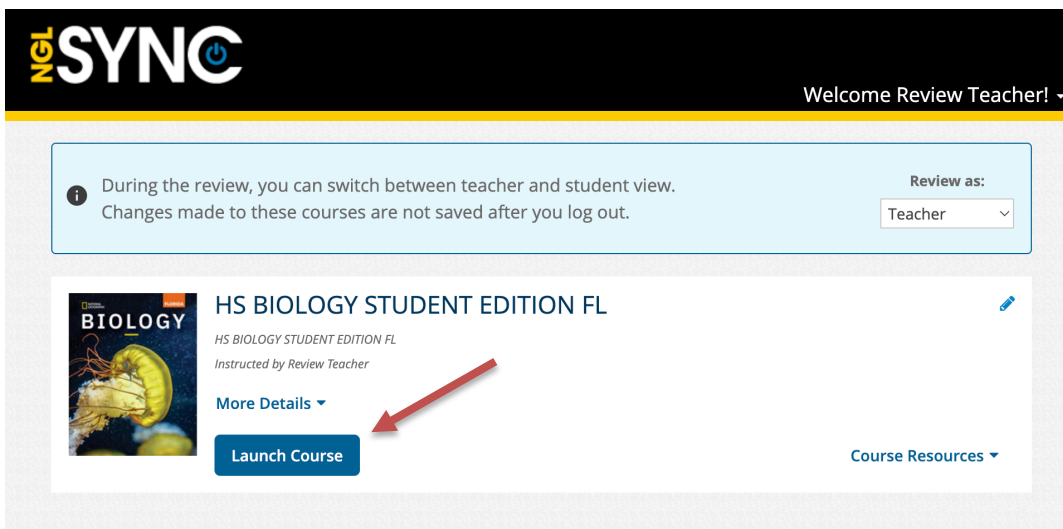


The screenshot shows a pop-up menu for the "Biology" eBook. The menu is titled "Biology" and lists several options: "Digital Walkthrough", "Program Video Presentation – Coming Soon", "Florida Reviewer's Guide – Coming Soon", "eBook Access", "Password: FloridaPrograms", "Correlations", "Access Point Correlations", "Publisher's Questionnaire", and "Universal Design Learning Questionnaire". A red arrow points to the "eBook Access" option.

**Step 3:** The password is **FloridaPrograms**. Check **I'm not a robot** and then click **Get Started**.



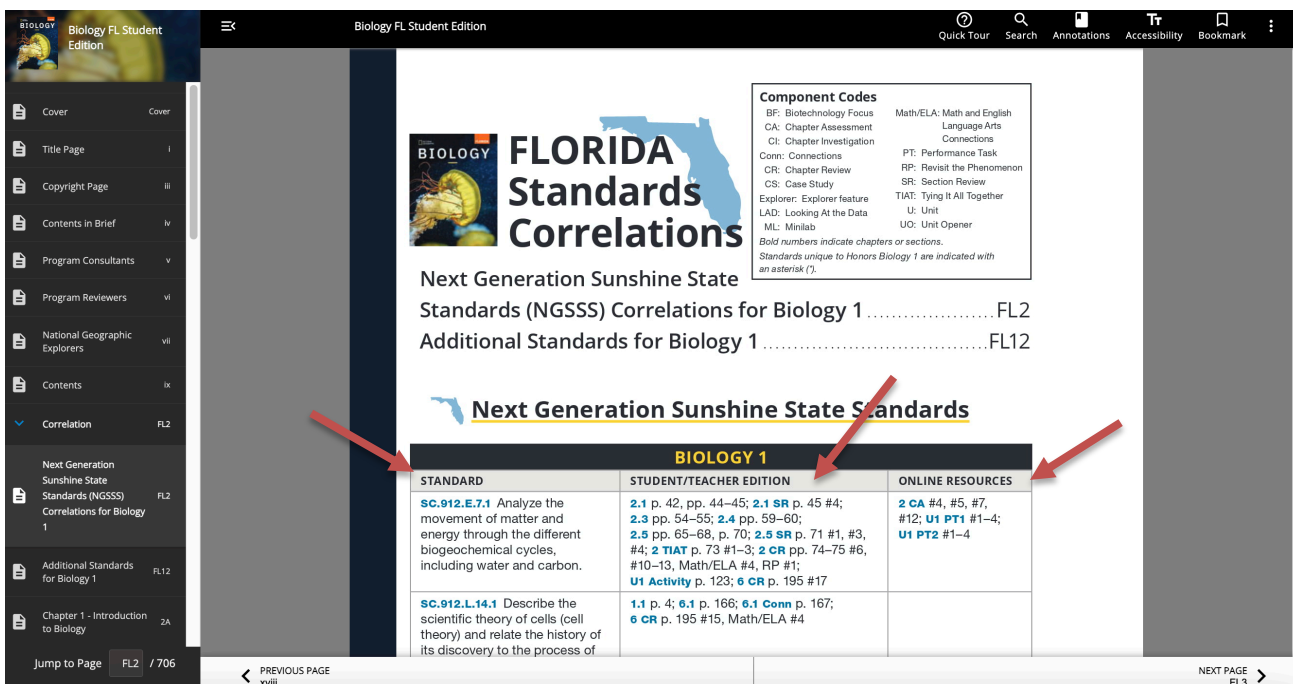
**Step 4:** Click **Launch Course** to open the ebook.



**Step 5:** Click the Next Page > to flip the pages. To jump to a specific page, click on a tab on the right.



**Step 6:** Standards are listed in the left column with correlating pages in the student/teacher edition are listed in the center column and online resources in the right column.



**Step 7:** Click the Next Page > to flip the pages. To jump to a specific chapter, click on a tab on the right and you will be taken to the chapter that starts with a list of Next Generation Sunshine State Standards covered in that chapter. Click on the Next Page > to continue to flip through the book and explore the chapter.

The screenshot displays the digital textbook interface for "Biology FL Student Edition". The top navigation bar includes icons for Quick Tour, Search, Annotations, Accessibility, and Bookmark. A left sidebar contains a table of contents with the following items:

- Program Consultants v
- Program Reviewers vi
- National Geographic Explorers vii
- Contents ix
- Correlation FL.2
- Next Generation Sunshine State Standards (NGSSS) Correlations for Biology 1 FL.2
- Additional Standards for Biology 1 FL.12
- Chapter 1 - Introduction to Biology 2A
- Chapter 2 - Energy and Matter in Ecosystems 40A (highlighted with a red arrow)
- Chapter 3 - Biodiversity and Ecosystem Stability 76A
- Chapter 4 - Population Measurement and Growth 98A

The main content area is titled "Next Generation Sunshine State Standards" and "Chapter 2 Energy and Matter in Ecosystems". It features a vertical "NGSSS" label on the left. The content is organized into sections:

- SC.912.E.7 Earth Systems and Patterns**: The scientific theory of the evolution of Earth states that changes in our planet are driven by the flow of energy and the cycling of matter through dynamic interactions among the atmosphere, hydrosphere, cryosphere, geosphere, and biosphere, and the resources used to sustain human civilization on Earth.
  - SC.912.E.7.1** Analyze the movement of matter and energy through the different biogeochemical cycles, including water and carbon.
- SC.912.L.17 Interdependence**: A. The distribution and abundance of organisms is determined by the interactions between organisms, and between organisms and the non-living environment. B. Energy and nutrients move within and between biotic and abiotic components of ecosystems via physical, chemical and biological processes. C. Human activities and natural events can have profound effects on populations, biodiversity and ecosystem processes.
  - SC.912.L.17.2** Explain the general distribution of life in aquatic systems as a function of chemistry, geography, light, depth, salinity, and temperature.
- SC.912.L.18 Matter and Energy Transformations**: A. All living things are composed of four basic categories of macromolecules and share the same basic needs for life. B. Living organisms acquire the energy they need for life processes through various metabolic pathways (primarily photosynthesis and cellular respiration). C. Chemical reactions in living things follow basic rules of chemistry and are usually regulated by enzymes. D. The unique chemical properties of carbon and water make life on Earth possible.
  - SC.912.L.18.7** Identify the reactants, products, and basic functions of photosynthesis.
  - SC.912.L.18.8** Identify the reactants, products, and basic functions of aerobic and anaerobic cellular respiration.
  - SC.912.L.18.9** Explain the interrelated nature of photosynthesis and cellular respiration.
- SC.912.N.1 The Practice of Science**: A: Scientific inquiry is a multifaceted activity. The processes of science include asking questions, developing a model or hypothesis, testing a hypothesis, analyzing data, and communicating results. Examples include: spills, oil spills, runoff, greenhouse gases, ozone depletion, and surface and groundwater pollution.

At the bottom of the page, there are navigation controls: "PREVIOUS PAGE 39" on the left and "NEXT PAGE 40B" on the right, with a red arrow pointing to the right arrow.