



# KEY ELEMENTS

## 1. Standards-based lessons

- Deliver lessons aligned with nationally benchmarked science standards: the NAEP 2009 Science Framework, the ACT College Readiness Standards™, the National Science Education Standards developed by the National Research Council, and key state standards

## 2. Guided-inquiry approach

- Promote scientific inquiry and a shared responsibility for learning
- Use the 5E Instructional Model developed by the Biological Sciences Curriculum Study (BSCS)

### Phases of the BSCS 5E Instructional Model

ENGAGE | EXPLORE | EXPLAIN  
ELABORATE | EVALUATE

## 3. Content and skills-acquisition lessons

- Use **Content Investigation lessons** to help students become increasingly independent as they learn how to conduct investigations
- Develop three reasoning skills with **Skills lessons**: the interpretation of data; scientific investigation; and the evaluation of models, inferences, and experimental results
- Deliver **Content and Reading Comprehension lessons** to improve students' reading-comprehension skills and to help students acquire background knowledge that they will apply in later lessons

## 4. Program-embedded assessments

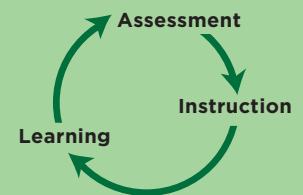
- Use program-embedded assessments to create a systematic feedback loop and ensure that instruction and learning are aligned



### An Internet-Based Assessment and Reporting System

- Administer assessments
- Generate reports to monitor student progress, determine instructional direction, differentiate teaching, and analyze student growth

### Systematic Feedback Loop



# GET YOUR SCIENCE NAVIGATOR PACKAGE!



- You can purchase each module of Science Navigator separately. Each module comes with:\*  
**Teacher Edition • Student Handbook • Online Resources**
- You can also purchase *Science Process Skills*—a reference book for teachers and students that can be used with all three modules.

\*Lab materials are not included.

## PROFESSIONAL DEVELOPMENT

Learn how to implement Science Navigator and enhance your teaching. Our professional-development workshops, tailored to the specific needs of students in grades 6–8 and grades 9–11, cover these topics:

- Understanding lesson organization in Science Navigator and using the teaching strategies and formative-assessment resources
- Incorporating both content and process skills at the appropriate grade level to facilitate a deeper understanding of science
- Selecting and modifying lessons to meet science content standards

