Kentucky Department of Education
Science Adoption 2008-2014

Provided by the Publisher				Provided by the Publisher
ISBN - **9780618965793**		Publisher - **Houghton Mifflin Company**		
Kentucky Experience Science Student Book				
Type - P1	Author - Badders, Carnine, Jeanpierre, Feliciani, Sumners, Valentino			
Copyright - 2009	Edition - 1st	Readability - 1.84 SSR Spache		
Course - Elementary Science		Grade(s) - 1		
Teacher Edition ISBN if applicable			**9780618965557**	

Overall Recommendation: ☒ **Recommended as Basal**

Overall Strengths, Weaknesses, Comments:

This basal makes an effort to align to Kentucky's Big Ideas in Science, however, Sound is included in Big Idea 1 instead of Big Idea 2. Biological Change, electricity, and properties of light are not addressed in this text, however, the teachers' guide indicates that they are covered in 2nd and 3rd grade. To convert this student text from a reading basal with no activities and minimal assessment to a science inquiry basal , the investigations in the teachers' guide and the Unit Resources folder in the "Free with Purchase" items must be utilized and implemented. Materials needed for the investigations will need to be obtained and some items are not available locally. Technology integration is weak and the videos and URLs are not provided.

CRITERIA
This basal resource …

A. Encompasses KY Content Standards & Grade Level Expectations	☐ **Strong Evidence** ☒ **Moderate Evidence** ☐ **Little or No Evidence**

☐ Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 7 Big Ideas of science to the following extent:

a)	Structure and Transformation of Matter	☐ Strong	☒ Moderate	☐ Little	☐ N/A
b)	Motion and Forces	☐ Strong	☒ Moderate	☐ Little	☐ N/A
c)	The Earth and the Universe	☐ Strong	☒ Moderate	☐ Little	☐ N/A
d)	Unity and Diversity	☒ Strong	☐ Moderate	☐ Little	☐ N/A
e)	Biological Change	☐ Strong	☐ Moderate	☒ Little	☐ N/A
f)	Energy Transformation	☐ Strong	☒ Moderate	☐ Little	☐ N/A
g)	Interdependence	☒ Strong	☐ Moderate	☐ Little	☐ N/A

2) Addresses content-specific enduring ☐ Strong ☒ Moderate ☐ Little ☐ N/A

understandings from the related Program of Studies standards.

3) **Addresses content-specific skills and concepts from the related Program of Studies standards.** ☐ Strong ☒ Moderate ☐ Little ☐ N/A

4) **Content addressed is current, relevant and non-trivial** ☒ Strong ☐ Moderate ☐ Little ☐ N/A

5) **Provides opportunities for critical thinking/reasoning** ☒ Strong ☐ Moderate ☐ Little ☐ N/A

6) **Strengths, Weaknesses, Comments:**
- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

Strengths include excellent investigation ideas and discussion guides in teacher's edition. The teacher's guide includes alignment with the Program of Studies and Core content. Sound should be in Big Idea 2 in the Teacher's edition instead of Big Idea 1. Motion and Forces do not address position and motion, fossils, electricity, and light traveling in a straight line.

B. Functionality & Suitability	☐ **Strong Evidence** ☒ **Moderate Evidence** ☐ **Little or No Evidence**

1) **Suitability** ☐ Strong ☒ Moderate ☐ Little ☐ N/A

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) **Content quality** ☐ Strong ☒ Moderate ☐ Little ☐ N/A

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community

3) **Connections to Literacy** ☐ Strong ☒ Moderate ☐ Little
Note: may apply to either student or teacher editions

- Employs a variety of reading levels and is grade/level appropriate
- Contains pre, during, post reading activities
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- Engaging text- does the text facilitate learning?

- Does understanding the text require having performed the imbedded activities?

4) Connections to Technology ☐ Strong ☐ Moderate ☒ Little

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data

5) Support for Diverse Learners ☐ Strong ☐ Moderate ☒ Little

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
  Note: may apply only to teacher edition

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Student text resembles a reading book. Each unit ends with a glossary and a responding section that contains multiple choice and short answer questions.No investigations or activities in student text pages. Student text does not connect to other literature. Teachers' guide references independent books which are available "Free with Purchase". Technology resources are referenced in the teachers'guide, but the videos are not included and the on-line Science readers and simulations do not include the URLs. Diverse learners are not addressed in the teachers' guide. There are no support materials provided for ESL students.

C. Supports Inquiry and Skill Development	☐ **Strong Evidence** ☒ **Moderate Evidence** ☐ **Little or No Evidence**

1) Promotes Inquiry, research and Application of Learning ☐ Strong ☒ Moderate ☐ Little

- Provides opportunities for inquiry and research that includes activities such as self-selecting topics, formulating authentic questions, gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, time lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
  Note: may apply to either teacher or student edition

2) Skill Development ☐ Strong ☒ Moderate ☐ Little

- Provides opportunities to make sense of data
- Provides opportunities for critical thinking and reasoning (analyze arguments, distinguish

fact/opinion, recognize bias)
- Provides opportunities to examine a range of types of evidence
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

Student text has no activities in it. The teachers' guide has appropriate, well-designed, investigations. However, the activity folder found in the "Free with Purchase" must be requested in order to have the blacklines, instructions, and data recording for students. The student workbook has no activities, but is a collection of worksheets. No investigation materials are provided. Some materials may be obtained locally, but others will have to be ordered.

D. Supports Best Practices of Teaching and Learning	☐ **Strong Evidence** ☐ **Moderate Evidence** ☐ **Little or No Evidence**

1) Engages Students ☐ Strong ☒ Moderate ☐ Little

- Includes content geared to the needs, interests, and abilities of students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated
  Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction ☐ Strong ☐ Moderate ☒ Little

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:
- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

Students will be engaged if the student uses the Investigations and provided the guided discussions are utilized in the teachers' guide. The activity pages for the investigations are only available with the "Free with Purchase" items. Assessment is briefly addressed at the end of each investigation and the Science Reader Support section in the Teachers' guides. There is a Test Generator CD-Rom which is only available with the "Free with Purchase" items.

E. Has an Organization/ Format that Supports Learning and Teaching	☐ Strong Evidence ☒ Moderate Evidence ☐ Little or No Evidence

1) Organizational Quality ☐ Strong ☒ Moderate ☐ Little

- Print and/or electronic materials present minimal barriers to learners
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Included media are durable, easy to use and have technical merit

- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text) ☐ Strong ☐ Moderate ☒ Little

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The student text is aligned with the Science Big Ideas except for the sound section which is included in Big Idea 1 when it should be in Big Idea 2. The media is not well-integrated. The Unit Resource Folder which contains the investigation pages for students is crucial to the successful implementation of inquiry.
This folder is "Free with Purchase" and must be requested.

F. Has available Ancillary/ Gratis Materials *Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F*	☐ Strong Evidence ☐ Moderate Evidence ☒ Little or No Evidence

1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving

2) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The Unit Resource Folder is the most important item. The study guide student workbook is a collection of worksheets. The Express Lab cards are time-fillers and not aligned with this text. The Independent books might be useful for the Reading Resource teacher to utilize.