

GUIDE TO REVIEWING

FOR *ON Science 9* AND *ON Science 10*



Feature STSE

The ON Science Advantage

Examples

ON Science 9 ON Science 10

Case Studies	Intriguing STSE-based Case Studies provide a launch pad for deeper investigation.	pg 146-147	pg 166-167
National Geographic	Engage learners with National Geographic features specifically written for the text.	pg 419	pg 8-9
Making a Difference	Students will be inspired by the extraordinary stories from local high school students.	pg 204	pg 292
Unit Projects	Each unit provides two unit projects aligned with SIS skills to choose from.	pg 258-259	pg 522-523
Unit Openers	Immediately introduces Big Ideas and STSE issues related to real life followed by a Big Question.	pg 397	pg 1-3
Chapter Openers	Review key concepts with questions organized around the Achievement Chart categories. Big Idea questions ask students to connect key concepts of each chapter to the Big Ideas of the unit.	pg 136-137	pg 400-401

Inquiry Skills Development

Inquiry Investigations	Students learn the skills of scientific inquiry through engagement in structured investigations designed for hands on investigation of key concepts.	pg 166-167	pg 117-118
Plan Your Own Investigations	Give students the opportunity to apply their inquiry skills by planning and conducting their own open-ended investigations.	pg 170-171	pg 207
Data Analysis Investigations	Increase the development of SIS skills with varied data analysis investigations.	pg 252	pg 382-383
Real World Investigations	Students collect and analyze their own data, testing their ability to research.	pg 117	pg 248-249
Safety Skills, Toolkits & Appendices	Provide guidance, how-to's, tools, and data to support the science learner as they develop their skills and knowledge.	pg xiv-xvii, 528-573	pg xiv-xvii, 528-573

Literacy Skills Development

Study Toolkits	Each chapter features a <i>Study Toolkit</i> that teaches effective reading and communication skills that improve learning.	pg 436	pg 218
Literacy Test Preparation	Literacy practice in the context of science concepts will help every student prepare for the OSSLT.	pg 395	pg 527

Learner-Focused Presentation

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Key Term Treatment	Key terms are highlighted, bolded and defined in both the margin and the glossary.	pg 222	pg 57
Narrative Flow & Organization	Strong learner-focused organization of narrative allows students to easily learn the basic concepts. Narrative is presented in short passages with frequent sub-headings.	pg 188-190	pg 449-451
Strong Visuals	Visuals have strong instructional value.	pg 232	pg 335
Scope and Sequence	Content is presented in short paragraphs with subheadings to aid in a students knowledge and understanding.	pg 274-275	pg 508-509
Science at Work	Highlights a variety of interesting career opportunities. Students are prompted to research essential skills for a career of interest to them.	pg 520-521	pg 254

Assessment

Unit Openers	Unit openers designed to support differentiated learning through diagnostic assessment.	pg 264-267	pg 262-263
Learning Checks	Frequently placed <i>Learning Checks</i> provide an opportunity for students to check their understanding.	pg 224-227	pg 461
Section Reviews	Each section ends with a page of questions correlated to the Achievement Chart categories.	pg 36	pg 198
Chapter Reviews	Each <i>Chapter Review</i> features two pages of questions correlated to the Achievement Chart categories with questions designed to link the key concepts to the Big Ideas.	pg 44-45	pg 346-347
Unit Reviews	A comprehensive review featuring connections to <i>Big Ideas</i> , questions correlated with the Achievement Chart, and Literacy Test Prep questions.	pg 392-395	pg 258-261
Make Your Own Summaries	Prompts students to summarize their learning using a graphic organizer.	pg 312	pg 482
Big Ideas	Assessment in both the Chapter and Unit reviews inform teachers and students of the level of understanding of the key concepts.	pg 433, 524	pg 445
Unit Projects	Choose from one of two unit projects aligned with SIS skills.	pg 522-523	pg 126-127

Differentiated Learning

Instructional Visuals	Visuals designed, selected and constructed as instructional tools to support visual learners.	pg 18	pg 309
Instructional Strategies	Our design and content supports different needs and a variety of learning opportunities to ensure engagement of all students.	pg 244-246	pg 291

Empowering Activism

Making a Difference	<i>Making a Difference</i> feature highlights viable and influential student contributions.	pg 240	pg 44
Case Studies	Engaging STSE-based <i>Case Studies</i> provide entry points for student-activists.	pg 508-509	pg 378-379
Projects	Analyzing issues provides opportunities for deeper research and response.	pg 390-391	pg 390-391