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Science Standards"; "Understanding Standards"; "Identifying and Unpacking Power Standards"; "Concepts, Skills, and Dispositions in a Science Framework"

"Concepts and Principles" "Standards Inform Instruction"; "A Planning Guide for Instruction"; "Interdisciplinary Units"; "Designing an Interdisciplinary Unit"; "Process Skills and Dispositions"; "Chapter 4 - Creating a Context for Meaningful Learning"; "An Introduction to Context"; "Context as a Function of Interest and Awareness of Purpose"; "Context and Intellectual Diversity"; "Context Embracing Brain-Based Learning"; "Emotional Intelligence and Learning"; "Context and Cultural Diversity"; "Science in Multicultural Contexts" "Chapter 5 - Methods, Strategies, and Best Practices for High Quality Instruction" "The Role of Methods in Unit Development"; "Teacher's Role in Inquiry"; "Direct Instruction Versus Inquiry-Based Instruction"; "High Quality Lesson Planning"; "Strategies for Student Engagement"; "Strategies to Enhance Inquiry"; "Creative Engagement, Involvement, and Assessment"; "Varying Strategies for Diverse Learners"; "Best Practices in Science Education"; "Chapter 6 - Tools for Thinking and Meaning"; "Questions"; "Graphic Organizers"; "Science, Technology, and Society" "Notebooks" "Chapter 7 - Assessments to Guide Instruction"; "Assessments as Tools for Learning"; "Designing Assessments"; "Task and Performance Assessments"; "Summative Performance Assessments"; "Chapter 8 - Safe, Supportive, and Challenging Environments for Learning"; "Considerations for Learning Environments"; "Classroom Safety"; "Resources"; "Internet Resources"; "Classroom Management"; "Management in Informal Settings"; "Creative Classrooms"; "Chapter 9 - Eight Steps to High Quality Instruction and Student Achievement" "Example 1: Applying the Eight Steps to a Unit on Plants"

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Sommario/riassunto

The author provides teacher-friendly tools, insights, sample lessons, and strategies for delivering quality, standards-based science curriculum and instruction that ensures student achievement.

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