Marzano's Instructional Strategies

In *Classroom Instruction that Works: Research-based Strategies for Increasing Student Achievement*, Robert Marzano (2001) and his colleagues identify nine high-yield instructional strategies through a meta-analytic study of over 100 independent studies. Marzano and his colleagues found that these nine strategies have the greatest positive effect on student achievement for all students, in all subject areas, at all grade levels, especially when strategically matched to the specific type of knowledge being sought. Therefore, these strategies should be incorporated into lessons in the Unit Plan Framework. Marzano's nine high-yield instructional strategies are summarized in the table that follows:

The Nine Categories of Instructional Strategies	
Category	**Definition**
Setting Objectives and Providing Feedback	Provide students with a direction for learning and with information about how well they are performing relative to a particular learning objective so they can improve their performance.
Reinforcing Effort and Providing Recognition	Enhance students' understanding of the relationship between effort and achievement by addressing students' attitudes and beliefs about learning. Provide students with abstract tokens of recognition or praise for their accomplishments related to the attainment of a goal.
Cooperative Learning	Provide students with opportunities to interact with one another in ways that enhance their learning.
Cues, Questions, and Advance Organizers	Enhance students' ability to retrieve, use, and organize what they already know about a topic.
Nonlinguistic Representations	Enhance students' ability to represent and elaborate on knowledge using mental images.
Summarizing and Note Taking	Enhance students' ability to synthesize information and organize it in a way that captures the main ideas and supporting details.
Assigning Homework and Providing Practice	Extend the learning opportunities for students to practice, review, and apply knowledge. Enhance students' ability to reach the expected level of proficiency for a skill or process.
Identifying Similarities and Differences	Enhance students' understanding of and ability to use knowledge by engaging them in mental processes that involve identifying ways in which items are alike and different.
Generating and Testing Hypotheses	Enhance students' understanding of and ability to use knowledge by engaging them in mental processes that involve making and testing hypotheses.