Better Student Thinking Through Changing Teacher Behaviors

Teachers in Irvine, California, are using questioning and responding strategies with students in classrooms and with each other in peer coaching.

When we asked teachers in the Irvine (California) Thinking Project to describe the single greatest change in their students, they reported:

- more flexibility in thinking and higher quality of products;
- increased independent application of higher-level thinking in classrooms, on the playground, and in social situations;
- higher levels of thought in oral and written communications, reflecting improved processing of information and understanding of relationships;

These results have been achieved by a project that places primary emphasis on a specific set of teacher verbal behaviors rather than on direct instruction in thinking skills.

In 1983 administrators and teachers in our K-12 district formed a task force to determine a common direction for the teaching of thinking. After we explored the issues, we decided that our approach to teaching thinking should be locally developed and should infuse thinking in all grade levels and all content areas.

When our District Curriculum Council (which sets priorities in curriculum and instruction) selected thinking as an instructional target, the task force decided against teaching thinking as a separate subject. Instead, we elected cognitive coaching (Costa and Garmston 1983) to the project. Further, we selected cognitive coaching (Costa and Garmston 1986) as the peer coaching model to elicit teachers thinking about their own instructional practices. Its use of questioning and responding strategies was congruent with the thinking model for students.

Throughout the year, teachers applied questioning and responding strategies and incorporated thinking skills appropriate to their grade levels and to their content areas. As a result of our emphasis on application, teachers were pleased that students participated much more actively than before. They reported that students took time to expand and justify their answers, willingly listened to the ideas of others, asked more questions, and raised more issues of their own.

In a year marred by severe state budget cuts to education, we are proud that our local board voted to expand the Thinking Project by creating a Level II stage of learning for teachers and adding four schools to the project. The enthusiasm of the teachers is reflected in this comment: "Too often we are trained in isolation, we are proud of our own local board voted to expand the Thinking Project by creating a Level II stage of learning for teachers and adding four schools to the project. The enthusiasm of the teachers is reflected in this comment: "Too often we are trained in isolation, with little follow-up or support. This project gives us the opportunity to grow together.""

References


Joyce, Bruce, and Beverly Showers. The Coaching of Teaching. Educational Leadership 40 (October 1983): 4-10.

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