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Paper Title: Perceptions of Tenth Grade Students Concerning Science Instruction in a Contextual Rich Environment and the Relationship of the Instruction to their Career Choice

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Abstract: The literature indicates that a contextually rich instructional environment may help students to acquire more meaningful learning in science. This exploratory study examines students' study environments at home and at school along with their perceptions concerning the relationship of science instruction to their career choice and work. The sample included tenth grade students in twelve high schools and technical centers geographically distributed across New York State. Data were collected Spring 1993 using a researcher validated and reliable questionnaire in opscan machine readable format. Findings show that most students have a home study environment that includes items such as calculators, printed materials and encyclopedias, along with situations that could support experiential learning. They tend to consider school a safe place, have a sense of belonging and like to attend school. On average, they spend 1 to 3 hours completing science homework in school each week and only 1 to 3 hours at home on all subjects. They see limited relationship between science instruction and their work experiences. Experiences and examples from agriculture and the environment would enhance their understanding of science and visa versa. In essence, students are engaged in the study of science, but fail to see a relationship to the world of work and perceive that more meaningful learning would result from contextual examples and experiences.

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Abstract

Perceptions of Tenth Grade Students Concerning Science Instruction in a Contextual Rich Environment and the Relationship of the Instruction to their Career Choice

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The literature indicates that a contextually rich instructional environment may help students to acquire more meaningful learning in science. This exploratory study examines students' study environments at home and at school along with their perceptions concerning the relationship of science instruction to their career choice and work. The sample included tenth grade students in twelve high schools and technical centers geographically distributed across New York State. Data were collected Spring 1993 using a researcher validated and reliable questionnaire in opscan machine readable format. Findings show that most students have a home study environment that includes items such as calculators, printed materials and encyclopedias, along with situations that could support experiential learning. They tend to consider school a safe place, have a sense of belonging and like to attend school. On average, they spend 1 to 3 hours completing science homework in school each week and only 1 to 3 hours at home on all subjects. They see limited relationship between science instruction and their work experiences. Experiences and examples from agriculture and the environment would enhance their understanding of science and visa versa. In essence, students are engaged in the study of science, but fail to see a relationship to the world of work and perceive that more meaningful learning would result from contextual examples and experiences.