

Learning And Understanding Improving Advanced Study Of Mathematics And Science In Us High Schools

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Guidance on how to achieve learning with understanding is grounded in seven research-based principles of human learning that are presented below (see Box 6-1). 1 In Chapter 7, these principles are used as the framework for the design of curricula, instruction, and assessments for advanced study—three facets of classroom activity that, when skillfully orchestrated by the teacher, jointly promote learning with understanding. These principles also serve as the foundation for the design of ...

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A mathematics or science curriculum for advanced study that promotes learning with understanding: Structures the concepts, factual content, and procedures that constitute the knowledge base of the discipline around the organizing principles (big ideas) of the domain.

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Learning and Understanding: Improving Advanced Study of Mathematics and Science in U.S. High Schools, NRC Report . By Jerry P. Gollub, Meryl W. Bertenthal, Jay B. Labov and Phillip C. Curtis. Abstract. A major study of advanced secondary science and mathematics education that seeks to transform how we prepare students for college. (author ...

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LEARNING AND UNDERSTANDING. IMPROVING ADVANCED STUDY OF MATHEMATICS AND SCIENCE IN U.S. HIGH SCHOOLS. Committee on Programs for Advanced Study of Mathematics and Science in American High Schools. Jerry P. Gollub, Meryl W. Bertenthal, Jay B. Labov, and Philip C. Curtis, Editors. Center for Education. Division of Behavioral and Social Sciences and Education

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Excellence in science and mathematics education is a critical need and goal for the United States. Programs for advanced study, particularly the Advanced Placement (AP) and International Baccalaureate (IB) programs, are major contributors to science and mathematics education at the high school level. Large numbers of high school students seek access to these courses, and many colleges use them in their admission decisions.

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Chapters 6 and 7 of this report present a framework for examining programs of advanced study. This framework is based on extensive research on student learning and the implications of that research for the design and integration of curriculum, instruction, assessment, and professional development. In Chapters 8 and 9 this framework is used to analyze the Advanced Placement (AP) and International Baccalaureate (IB) programs; areas in which there is alignment with the principles of learning ...

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Learning and Understanding: Improving Advanced Study of Mathematics and Science in U.S. High Schools. Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, National Research Council. Categories:

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Learning and Understanding: Improving Advanced Study of Mathematics and Science in U.S. High Schools Jerry P. Gollub, et al. National Academy of Science, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools February 2002

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