



BioBLAST

Better Learning through Adventure,
Simulation, and Telecommunications

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CD Description: BioBLAST is an inquiry-based curriculum supplement that incorporates NASA's science and technology research. The Quick-Time Virtual Reality interface is designed to draw students into the problem-solving scenario. Students blast-off on a virtual trip to the moon where they will live and work in a fully equipped lunar habitat. In this virtual reality setting, student researchers use the simulation tools and electronic resources available to design a biologically regenerative life support system that can support humans in space for long periods of time. One of the key aspects of the BioBLAST program is that the simulation models are based on current data gathered from NASA life sciences research that is currently underway. Each of the four simulations has been designed to encourage students to investigate hypothetical questions that could not readily be tested in traditional bench-top lab experiments. Students can view, export, and manipulate the data used in the simulations to test their own hypotheses as well as examine the limits and potential of the simulation model.