

The Giant AWAKENS.

Will the hurricane make landfall?

Will the volcano explode?

Will the residents need to be evacuated?

The giant awakens and the skies darken as ash and soot rain down on a remote tropical island. The volcano—now a ticking time bomb—has come to life once again and the residents of Montserrat worry about their fate.

As flaming pebbles and lava begin to devastate the countryside, emergency response teams learn a hurricane is approaching. Fortunately, the Space Shuttle is dispatched and makes repairs on a satellite to transmit real-time data about the hurricane and volcano.

With this medley of disasters looming, Mission Control scrambles to assemble a team of specialists to assist the island residents.

Operation Montserrat is an innovative distance-learning program offered by the Challenger Learning Center. It challenges students to apply their science and math skills to an authentic crisis situation.



e-Mission :

**OPERATION
MONTSERRAT**





A Real-Life Crisis Brought into Your Classroom

Shifting to digital learning is critical to the success of education in America. Operation Montserrat creates an opportunity for teachers to apply various technologies and provides necessary digital content lacking in so many computer classrooms. The interactive distance learning nature of the program also gives students the chance to experience learning through simulations no matter how remote the school.

Operation Montserrat is a complete curricular package of classroom content which connects a flight director at the Challenger Learning Center with a classroom anywhere in the world. During the two-hour e-Mission, student specialists serve as members of a team: volcano, hurricane, evacuation or communication. With the help of computers, the Internet and a small video camera, students interact with the flight director to track the hurricane, predict volcanic activity and consider evacuation options.

The Curriculum

The program meets important science and math standards in grades 6 -12 and has applications to language arts and social studies. Through pre-mission and mission day activities, Operation Montserrat builds students' enthusiasm for science and math, improves students' problem solving and critical thinking skills and teaches students the importance of teamwork and communication.

Prior to the mission, teacher orientation includes all the support materials necessary to run the program effectively: daily lesson plans, standards, assessment, and technology tips. The mission package also includes technology support to help educators prepare their classrooms for mission day.

Professional Development

Today's teachers are learning the professional skills it takes to integrate technology with high-quality content in the classroom. In addition to running the e-Mission program for your students, you may want to consider hosting one of our professional development workshops. This experience emphasizes how to use the standards and technology for effective student activities and assessment.

The Challenger Learning Center

The Challenger Learning Center is part of a growing network of centers nationwide established in memory of the crew of the ill-fated Challenger Space Shuttle. The center provides a unique hands-on learning experience designed to foster interest in math, science and technology.

Each CLC has an on-site simulator. It is comprised of a Space Station that gives students the simulated experience of working in space, and a Mission Control, modeled after NASA's Johnson Space Center in Houston.



Challenger Learning Center

316 Washington Avenue
Wheeling, WV 26003-6295
304-243-4325 • <http://clc.wju.edu>

Operation Montserrat Website
Students: <http://clc.wju.edu/om>
Teachers: <http://clc.wju.edu/om/teacher>



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