

## Operation Montserrat Lessons and Activities

### 8<sup>th</sup> Grade Standards

Timing	Mission and Description	Supported Standards
Pre-Mission	<b>Introduction to E-mission:</b> Students are given a brief introduction to what they will be doing on their mission and review career information of the various teams.	Science:3.1, 3.2 Math:-- English:-- Social Studies:-- Visual Arts:--
	<b>Applying for the Mission:</b> Students form Emergency Response Teams (ERTs) and review the application process. The teams must decide on team rules and draft a Letter of Commitment. Teams must finalize a copy of their Letter of Commitment and mail them. Students must also submit individual resumes for job selection.	Science:-- Math:-- English:3.2, 3.3 Social Studies:-- Visual Arts:--
	<b>Analysis of Yellowstone:</b> Students read about wildfires and specifically look at Yellowstone wildfires. They conduct the Yellowstone Analysis and complete the Sphere Analysis Tool.	Science:-- Math:3.1, 4.2 English:2.2, 2.3, 3.2, 3.3 Social Studies:2.1 Visual Arts:--
	<b>Volcanoes:</b> Students will read about volcanoes in general and the eruption of Mt. Pinatubo. They will look at the event to sphere interactions to analyze its effects.	Science: -- Math:3.1, 4.2 English:2.2, 2.3 Social Studies:-- Visual Arts:--
	<b>Mt. Pinatubo:</b> Using their knowledge of volcanoes and the history of Mt. Pinatubo, students will conduct the Mt. Pinatubo Analysis and complete the Sphere Analysis Tool for the event. At this time they will write a Team Evaluation and make an entry in their ERT Log	Science:-- Math:3.1, 4.2 English: 3.2 Social Studies:2.1 Visual Arts:--
	<b>Hurricanes:</b> Students will read about hurricanes and Hurricane Georges specifically. They will look at the event to sphere interactions to analyze the effects of hurricanes.	Science:3.1,3.2 Math:3.1, 4.2 English:2.2, 2.3 Social Studies:-- Visual Arts:--
	<b>Hurricane Georges:</b> Using their knowledge of hurricanes and Hurricane Georges, students will conduct the Hurricane Georges Analysis and complete the Sphere Analysis Tool for the event. At this time they will write another Team Evaluation and make an entry in their ERT Log.	Science:3.1, 3.2 Math:3.1, 4.2 English:3.2 Social Studies:2.1 Visual Arts:--
	<b>Montserrat:</b> Students will develop three different contingency plans for the island of Montserrat to be used on the Mission Day. Students should all partake in the discussion during the development of the plans and should be familiar with each one.	Science:3.1, 3.2 Math:-- English:-- Social Studies:-- Visual Arts:--
	<b>Risk Analysis of Montserrat/ Pre-Mission Prep:</b> Students should divide into their mission teams and discuss communication flow and team members' roles. At this time they will write another Team Evaluation and make an entry in their ERT Log.	Science:3.1, 3.2 Math:-- English:-- Social Studies:-- Visual Arts:--
Mission Day	<b>Communications Team:</b> The communications team is responsible for communicating with the Mission Flight Commander. They will be receiving all the messages and categorizing each according to its priority level. They will determine what needs to be communicated orally and what can be communicated through a chat window.	Science:3.1, 3.2 Math:3.1, 4.2 English:1.2, 4.2, 4.3 Social Studies:-- Visual Arts:--
	<b>Hurricane Team:</b> Students will complete Report Forms of the ongoing events and analyze the hurricane situation. Key information will be organized and recorded on a wall chart in the form of graphs, data tables, etc. Students must relay important information to the communications team to be passed on to others.	Science:3.1, 3.2 Math:3.1, 4.2 English:1.2, 4.2, 4.3 Social Studies:2.1 Visual Arts:--
	<b>Volcano Team:</b> Students will complete Report Forms of the ongoing events and analyze the volcano situation. Key information will be organized and recorded on a wall chart in the form of graphs, data tables, etc. Students must relay important information to the communications team to be passed on to others.	Science:-- Math:3.1, 4.2 English:1.2, 4.2, 4.3 Social Studies:2.1 Visual Arts:--
	<b>Evacuation Team:</b> Students are responsible for completing Report Forms about the ongoing evacuation of the island. The evacuation status should be kept on a wall chart in the form of notes so that the information can easily be understood and passed on to others.	Science:3.1,3.2 Math:3.1, 4.2 English:1.2, 4.2, 4.3 Social Studies:2.1



	<p><b>Research Team:</b> The Research Team is responsible for researching and relaying any important information that can assist the other teams in their missions. Relevant topics for the Research Team to investigate include magma, lava flow, mud flow, tsunamis, storm surges, wind damage potential, the different parts of a hurricane, and any other pertinent information</p>	<p>Science: 3.1, 3.2            Math:3.1, 4.2            English:1.2, 2.2, 2.3, 4.2, 4.3            Social Studies:2.1            Visual Arts:--</p>
Post-Mission	<p><b>Press Conference:</b> Students are asked to prepare for a press conference to answer questions surrounding their mission. Then parents, teachers, and administrators ask students to reflect on their experience and explain what they learned as a result of their mission.</p>	<p>Science: 3.1, 3.2            Math:--            English:1.1, 1.2, 4.3            Social Studies:--            Visual Arts:--</p>