C:: MISSION SPACE STATION ALPHA UNIT 6						
Unit 6 Overview: P	re- Mission Prepa	ration	-	35		
Lesson 13: Pre-Mission Preparation 1 Lesson 14: Pre-Mission Preparation 2						
Materials Articles Pre-Mission Preparation: • Overview of Teams • Mission Directives • Classroom Setup • STORM Team Overview • Radiation Team Overview • Power Team Overview • Life Support Team Overview • Communications Team Overview • Communications Team Overview • Communications Team Overview • Completed "Preparation (Below) Teacher Materials: • Completed "Practice" Graphs, Tables, and Data.	 Storyline The students wi during the e-Mi The students wi during the e-Mi The students wi and information directly relevan Main Topics Scientists gener Scientists gener results and mak Scientists gener results, and ma Scientists gener results, and mak Stimulations help Learning Outcomes The students wi information. The students wi both tables and Important: Make permission to par 	III prepare for their duties du III learn how to manage the r ssion. III have a chance to review the they studied during Mission to their e-Mission team ass rate tables to record raw dat rate tables to prepare data to the projections. The graphs to record data, on the projections. The graphs to convert the generate graphs to convert the generate graphs to convert the graphs. The student outcomes based up graphs.	ring the e-Mission. raw data they will re- he important materi Specialist training ignment. a. b observe trends, inter- observe trends, inter- observe trends, inter- obs. een events. traw data into mean t raw data into mean and graphs. bon trends revealed ts have receiver eriod e-Missio	eceive als that is tterpret rpret ningful aningful by ed n		
 Completed "Practice" Graphs, Tables, and Data. Materials Preparation Make final plans for the e-Mission with school tech personnel. Invite VIP's. For Lesson 13: Prior to entering into this phase of the Mission Specialist training, <i>all</i> the students should have been assigned to one of the four e-Mission teams and to a specific data set, ie. <u>Power Team</u>: Proton Production or X-ray Production; <u>Life Support Team</u>: Oxygen or CO2; <u>Radiation Team</u>: TEPC 1 or TEPC 2; <u>Power Team</u>: Battery Reserve or Solar Array. 	Important: Make permission to par from the appropri All students, regardless of their final role on a team, should be assigned to one of the aforementioned sets of data—including the Communications Team members (Please see Looking Ahead.) To begin Lesson 13: Each student should have on his/her desk: • calculator • Pencil with eraser • One set of raw data • One table • One graph • One Report Form	sure that all student ticipate in the two-p ate teachers. 3. For Lesson 14: Set up the classroom as suggested by the article, "Classroom Setup." The student will benefit from practicing in an environment similar to that of the e- Mission. Prepare all materials for the "Data Processing Race" which begins the class. Find small, fun prizes or some form of recognition to be awarded to the winner of the "Data Processing Race."	ts have receive eriod e-Missio Vocabulary Table Column Row Graph x-axis Raw data Slope Lable Computation	<u>ed</u> n 		

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Brief Station 36 During the e-Mission the students will be working "under pressure." Questions that arise over the simplest tasks and definitions endanger the quality of the e-Mission for the entire class. Students and teams that are frustrated can affect the mission. The teaching approach suggested for the first part of the Pre-Mission Preparation is a step-by-step walk-through for all students of the creation of tables and graphs. It begins with the receipt of raw data and proceeds to the filling-out of the report forms. This will be followed, in the second lesson, by a "competition" which permits all students to work at top speed through this process. The teams will then assign individual tasks and discuss both the team's overall assignment and one "What if" scenario. This will sharpen their appreciation for the upcoming e-Mission simulation. Domections to Other Units If any students have created Mission Patches, it is time to display them. The class may wish to select one patch to designate their mission. Please reward all students involved in this extra effort. Forward the select patch(es) to the Challenger Learning Center for display in our Mission Control booth during your e-Mission. Field test experience has shown that careful two-day preparation leads to a successful e-Mission. Internet Resources: Recommended search engines: http://www.kartoo.com http://www.kartoo.com Recommendation: After selecting your Communications Team and a review of the second period is suggested. Recommended search engines: http://www.kartoo.com Recommendation: After selecting your Communications Team and a review of the second period is suggested. Recommended search engines: http://wwww.doile.com Reco				
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