Scope & Sequence

Unit 1: Mission Br	iefing and Applicat	ion Process	
Lesson	Lesson 1	Lesson 2	Lesson 3
Topic	Getting Acquainted	Application 1	Application 2
Activity	20 min. Students read articles 20 min. Guided discussion	10 min. Review Personal Essay 35 min. Part One and Two of Class Activity	10 min. Review Personal Essay 35 min. Part Three and Four of Class Activity
Teacher Preparation	Start gathering materials for Sheer Magnetism exploration and power hands-ons	Print application materials	
Homework	Read Apply Today, Personal Essay, Class Activity: Space Station Systems, Mission Patch (Optional)	Write First draft of Personal Essay, (Optional) Class Activity: Complete Parts One and Two at home	Read Specialist Training: Specialist Orientation, Chapter 1: Here Comes the Sun, Inside the Atom, Prepare for Space Station Stumper quiz
Assessment		Personal Essay, Class Activity	Personal Essay, Class Activity
Unit 2: Space Wea	ther		
Lesson	Lesson 4	Lesson 5	Lesson 6
Topic	Space Weather 1	Space Weather 2	Space Weather 3
Activity	15 min. Space Station Stumpers 25 min. Sheer Magnetism	15 Min. Conclude Sheer Magnetism 30 Min. Article Review	10 Min. Complete Article Review activity 30 Min. Teacher presentation/ discussion
Teacher Preparation	Prepare quiz Prepare hands-on	Prepare hands-on Prepare for Article Review	Prepare teacher presentation, Start preparation of hands on exploration for next lesson

Unit 3: Radiation Health  Lesson Lesson 7 Lesson 8  Topic Radiation Health 1 Radiation Health 2	Homework	Read Dr.Z: Inside the Sun Prepare for Article Review activity Complete Sheer Magnetism: Closure questions	Read New I New Danger Electromagn Radiation: Ta Wild Energie Complete: M Specialist Lo	s, etic aming the es, lission	Read Do You Want the Recipe In the Kitchen with Poly Measuring Exposure to Radiation Prepare to answer questions on Radiation Health readings.
Lesson       Lesson 7       Lesson 8         Topic       Radiation Health 1       Radiation Health 2         Activity       45 Min. Hands-on exploration       45 Min. Article Review activity (10 Min Prep time, 35 Min. reports)         Teacher Preparation       Prepare hands-on       Prepare for Article Review         Homework       Read ONE of: New Frontiers, New Dangers, Electromagnetic Radiation: Taming the Wild Energies, Do You Want the Recipe In the Kitchen with Poly Measuring Exposure to Radiation       Read Energy Supply Problem, Rechargeable Batteries, Complete Mission Specialist Log entry.         Assessment       Closure questions from hands on exploration       Article Review Mission Specialist's Log         Unit 4: Power Systems       Lesson 1       Lesson 1         Lesson       Lesson 9       Lesson 10       Lesson 1         Topic       Power Systems 1       Power Systems 2       Power Systems 3         Activity       20 Min. Space Station Stumpers quiz Exercise       20 Min. Debrief Practice Exercise       20 Min. Reports and discussion         20 Min. Teacher       25 Min. Teacher	Assessment	Station Stumpers quiz	closure ques	tions	Mission Specialist's Log
Topic Radiation Health 1 Radiation Health 2  Activity 45 Min. Hands-on exploration 45 Min. Article Review activity (10 Min Prep time, 35 Min. reports)  Teacher Preparation Prepare hands-on Prepare for Article Review  Homework Read ONE of: New Frontiers, New Dangers, Electromagnetic Radiation: Taming the Wild Energies, Do You Want the Recipe In the Kitchen with Poly Measuring Exposure to Radiation  Assessment Closure questions from hands on exploration Mission Specialist's Log  Unit 4: Power Systems  Lesson Lesson 9 Lesson 10 Lesson 1  Topic Power Systems 1 Power Systems 2 Power Systems 3  Activity 20 Min. Space Station Stumpers quiz Exercise 20 Min. Crganize for 20 Min. Electricity 25 Min. Teacher	Unit 3: Radiation H	lealth			
Activity  45 Min. Hands-on exploration  45 Min. Article Review activity (10 Min Prep time, 35 Min. reports)  Teacher Preparation  Prepare hands-on  Read ONE of: New Frontiers, New Dangers, Electromagnetic Radiation: Taming the Wild Energies, Do You Want the Recipe In the Kitchen with Poly Measuring Exposure to Radiation  Assessment  Closure questions from hands on exploration  Closure Systems  Lesson  Lesson  Lesson  Lesson  Lesson  Lesson  20 Min. Space Station Station Stumpers quiz Stumpers quiz Stumpers quiz Stumpers quiz Stumpers divided in the Stitchen with Poly Afficiation  Assessment  45 Min. Article Review Read Energy Supply Problem, Rechargeable Batteries, Complete Mission Specialist Log entry.  Article Review Mission Specialist's Log  Lesson 1  Lesson 1  Lesson 1  20 Min. Debrief Practice Exercise Stumpers quiz Stumpers quiz Stumpers quiz Stumpers quiz Stumpers divided in the Student Stumpers and discussion Stumpers Quiz Stumpers Quided in the Student Stumpers and discussion Stumpers quiz Stumpers quiz Stumpers Quided in the Student Stumpers and discussion Stumpers Quided in the Student Student Stumpers Quided in the Student S	Lesson	Lesson 7		Lesson 8	
Teacher Preparation Prepare hands-on Prepare for Article Review  Homework Read ONE of: New Frontiers, New Dangers, Electromagnetic Radiation: Taming the Wild Energies, Do You Want the Recipe In the Kitchen with Poly Measuring Exposure to Radiation  Assessment Closure questions from hands on exploration  Complete Mission Specialist Log entry.  Article Review Mission Specialist's Log  Unit 4: Power Systems  Lesson Lesson 9 Lesson 10 Lesson 1  Topic Power Systems 1 Power Systems 2 Power Systems 3  Activity 20 Min. Space Station Stumpers quiz 20 Min. Debrief Practice Exercise 20 Min. Teacher	Topic	Radiation Health 1		Radiation Health 2	
Homework  Read ONE of: New Frontiers, New Dangers, Electromagnetic Radiation: Taming the Wild Energies, Do You Want the Recipe In the Kitchen with Poly Measuring Exposure to Radiation  Assessment  Closure questions from hands on exploration  Closure questions from hands on exploration  Closure Questions from hands on exploration  Lesson  Lesson  Lesson  Lesson  Lesson  Power Systems  2 Power Systems 3  Activity  20 Min. Space Station Stumpers quiz 20 Min. Organize for  20 Min. Electricity  Read Energy Supply Problem, Rechargeable Batteries, Complete Mission Specialist Log entry.  Lesson Senty  Powerly Supply Problem, Rechargeable Batteries, Complete Mission Specialist Log entry.  Lesson  Article Review Mission Specialist's Log  Unit 4: Power Systems  Article Review Mission Specialist's Log  Unit 4: Power Systems  Elesson 1  Lesson 1  Lesson 1  Exercise 20 Min. Debrief Practice Exercise 20 Min. Reports and discussion 25 Min. Teacher	Activity	45 Min. Hands-on exploration		45 Min. Article Review activity (10 Min. Prep time, 35 Min. reports)	
New Frontiers, New Dangers, Electromagnetic Radiation: Taming the Wild Energies, Do You Want the Recipe In the Kitchen with Poly Measuring Exposure to Radiation  Assessment  Closure questions from hands on exploration  Closure questions from hands on exploration  Article Review Mission Specialist's Log  Unit 4: Power Systems  Lesson  Lesson 9  Lesson 10  Lesson 1  Topic  Power Systems 1  Power Systems 2  Power Systems 3  Activity  20 Min. Space Station Stumpers quiz Exercise 20 Min. Organize for 20 Min. Electricity  25 Min. Teacher	Teacher Preparation	Prepare hands-on		Prepare for Article Review	
Unit 4: Power Systems       Lesson     Lesson 9     Lesson 10     Lesson 1       Topic     Power Systems 1     Power Systems 2     Power Systems 3       Activity     20 Min. Space Station Stumpers quiz 20 Min. Organize for 20 Min. Electricity     20 Min. Electricity 25 Min. Teacher	Homework	Read ONE of: New Frontiers, New Dangers, Electromagnetic Radiation: Taming the Wild Energies, Do You Want the Recipe In the Kitchen with Poly		Rechargeable Batteries,  Complete Mission Specialist Log	
Lesson     Lesson 9     Lesson 10     Lesson 1       Topic     Power Systems 1     Power Systems 2     Power Systems 3       Activity     20 Min. Space Station Stumpers quiz Quiz Quiscussion Qui	Assessment	·			
TopicPower Systems 1Power Systems 2Power Systems 3Activity20 Min. Space Station Stumpers quiz 20 Min. Organize for20 Min. Debrief Practice Exercise20 Min. Reports and discussion 25 Min. Teacher	Unit 4: Power Syst	tems			
Activity  20 Min. Space Station Stumpers quiz 20 Min. Debrief Practice Exercise 20 Min. Reports and discussion 20 Min. Organize for 20 Min. Electricity 25 Min. Teacher	Lesson	Lesson 9	Lesson 10		Lesson 1
Stumpers quiz Exercise discussion 20 Min. Organize for 20 Min. Electricity 25 Min. Teacher	Topic	Power Systems 1	Power Syste	ms 2	Power Systems 3
	Activity	Stumpers quiz 20 Min. Organize for	Exercise 20 Min. Elec		discussion 25 Min. Teacher

Teacher Preparation	Prepare Quiz Print out Practice Exercise Set up hands-on explorations	Set up hands-on explorations	Prepare teacher presentation
Homework	<b>Complete</b> Practice Exercise: Power on the Space Station	Read How I Discovered Air Prepare for presentation Complete Closure questions	Read How I Discovered Air, A Weighty Discovery, Living in a Bubble, Breathing on the Space Station Complete Mission Specialist's Log entry
Assessment	Station Stumpers quiz	Practice Exercise Mission Specialist's Log	Closure questions from hands on exploration Class report questions
Unit 5: Life Suppo	rt		
Lesson	Lesson 12		
Topic	Life Support		
	35 Min. Article Review activity 10 Min. Homework preparation		
Activity		•	
-		ation	
-	10 Min. Homework prepare Prepare Article Review ac Print team prep materials	ation tivity markers, etc. ialist's Log entry	
Teacher Preparation	10 Min. Homework prepar Prepare Article Review ac Print team prep materials Gather calculators, pens, Complete Mission Spec Read team packet, Pre-Mission Preparation:	ation tivity markers, etc. ialist's Log entry	
Teacher Preparation  Homework	10 Min. Homework prepared Prepare Article Review and Print team prep materials Gather calculators, pens, Complete Mission Special Read team packet, Pre-Mission Preparation: Mission Directives  Article Review Mission Specialist's Log	ation tivity markers, etc. ialist's Log entry	
Teacher Preparation  Homework  Assessment	10 Min. Homework prepared Prepare Article Review and Print team prep materials Gather calculators, pens, Complete Mission Special Read team packet, Pre-Mission Preparation: Mission Directives  Article Review Mission Specialist's Log	ation tivity markers, etc. ialist's Log entry	

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Activity	25 Min. Teacher-led overview of calculations 15 Min. Team prep work	25 Min. Data processing "race" 20 Min. Team reports
Teacher Preparation	Print practice tables, Get ready for the Mission	Set up room for the Mission
Homework	Work Practice Data	Review All materials
Assessment		Complete practice Data Tracking Sheets
Unit 7: Mission		
Unit 7: Mission Lesson	Lesson 15	
	Lesson 15 Mission	
Lesson		
Lesson Topic Activity	Mission	
Lesson Topic Activity	Mission 90 Min. Run mission	