

Scope & Sequence

Unit 1: Mission Briefing and Application 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 Weather

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

Homework

Read Dr.Z : Inside the Sun
Prepare for Article Review activity
Complete Sheer Magnetism: Closure questions

Read New Frontiers, New Dangers, Electromagnetic Radiation: Taming the Wild Energies,
Complete: Mission Specialist Log entry

Read Do You Want the Recipe
In the Kitchen with Poly Measuring Exposure to Radiation
Prepare to answer questions on Radiation Health readings.

Assessment

Station Stumpers quiz

Sheer Magnetism closure questions
Article Review

Mission Specialist's Log

Unit 3: Radiation Health

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	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 explorations	20 Min. Debrief Practice Exercise 20 Min. Electricity explorations	20 Min. Reports and discussion 25 Min. Teacher presentation

Teacher Preparation	Prepare Quiz Print out Practice Exercise Set up hands-on explorations	Set up hands-on explorations	Prepare teacher presentation
Homework	Complete 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 Support

Lesson	Lesson 12
Topic	Life Support
Activity	35 Min. Article Review activity 10 Min. Homework preparation
Teacher Preparation	Prepare Article Review activity Print team prep materials Gather calculators, pens, markers, etc.
Homework	Complete Mission Specialist's Log entry Read team packet, Pre-Mission Preparation: Overview of Teams Mission Directives
Assessment	Article Review Mission Specialist's Log

Unit 6: Pre-Mission Prep

Lesson	Lesson 13	Lesson 14
Topic	Pre-Mission Prep 1	Pre-Mission Prep 2

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		
Lesson	Lesson 15	
Topic	Mission	
Activity	90 Min. Run mission	
Teacher Preparation	Set up room for the Mission	
Homework		
Assessment		