Mission Possible Summer Bridge: Unit and NGSS Alignment

Unit 1: Headquarters: Austin, Texas (The Mission Possible Assignment)	
Team Building: Like Things	*Disciplinary Core Ideas and Performance Expectations*
Introduction and Podcast on the Mission	LS1.A: Structure and Function (PE: MS-LS1-1)
Case File Set-Up: The Interactive Notebook	LS1.B: Structure and Function (PE: MS-LS1-2)
Latitude and Longitude: Notes and BINGO	*Science and Engineering Practices*
Introduction to Pathogens	Asking Questions
Agent Wanted Poster	Analyzing and interpreting data
AVID Squad 1	
Reflection: Unit 1	
Podcast, Unit 1: Latitude and Longitude	
Unit 2: London, England (Measurements)	
Podcast on the Mission	*Science and Engineering Practices*
AVID Squad 2	Using Mathematics and Computational Thinking
Costa's Levels of Thinking	Planning and Carrying Out Investigations
Measurement: Keeping It Contained	Asking Questions
Lab Certification: Lab Safety Protocols	Obtaining, Evaluating, and Communicating Information
Lab Certification: Lab Equipment	
Lab Certification: Flubber Lab Practical	
Dimensional Analysis: Cornell Notes	
Reflection: Unit 2	
Unit 3: London, England (Measurements)	
Podcast on the Mission	*Disciplinary Core Ideas and Performance Expectations*
AVID Squad 3	PS3.A: Definitions of Energy (PE: MS-PS3-1)
Dimensional Analysis Relay	PS3.B: Conservation of Energy and Energy Transfer (PE: MS-PS3-5)
Variables and Graphing: Cornell Notes	*Science and Engineering Practices*
Brain Break: Group Juggle	Planning and Carrying Out Investigations
See-Run-Do: Mono's Movements	Using Mathematics and Computational Thinking
The "Story" of a Graph	
Speed Demons	
Mission Processing Assignment	
Porcast, Unit 3: Latitude and Longitude	
Unit 4: Mumbai, India (Water)	
Podcast on the Mission	*Disciplinary Core Ideas and Performance Expectations*
AVID Squad 4	PS1.A: Structure and Properties of Matter
Fun Facts About Water	PS2.C: Ecosystem Dynamics, Functioning, and Resilience (MS-LS2-5)
Droplet Race	*Science and Engineering Practices*
Partner Drawing	Constructing Explanations
Water Purification	Planning and carrying out investigations
SWAT Vocabulary Squad Competition	Analyzing and Interpreting Data
Investigating the Properties of Water	
Reflection, Unit 4	

Unit 5: Mumbai, India (Water)	
AVID Squad 4	*Disciplinary Core Ideas and Performance Expectations*
What Does It Indicate?	PS1.A: Structure and Properties of Matter
Brain Break: Team Huddle	*Science and Engineering Practices*
How Contaminated Is the Water	Constructing Explanations
Brain Break: Stand Up and Spell!	Planning and carrying out investigations
Reflection: Unit 5	Analyzing and Interpreting Data
Podcast, Unit 5: Latitude and Longitude	Using mathematics and computational thinking
Unit 6: Manaus, Brazil (Amazon Rainforest)	
Podcast on the Mission	*Disciplinary Core Ideas and Performance Expectations*
Pass the Picture	LS2.A: Interdependent Relationships in Ecosystems (PS: MS-LS2-1 and LS2-2)
Oh, the Humidity!	LS2.B: Cycles of Matter and Energy Transfer in Ecosystems (PS: MS-LS2-3)
Brain Break: Show Me Your Groove	PS1.A: Structure and Properties of Matter (PS: MS-PS1-4)
Barometer and Air Pressure	*Science and Engineering Practices*
Rainforest Food Web	Developing and Using Models
Processing the Learning	Planning and Carrying Out Investigations
	Analyzing and Interpreting Data
	Constructing Explanations
Unit 7: Manaus, Brazil (Amazon Rainforest)	
Survivors Activity	*Disciplinary Core Ideas and Performance Expectations*
Team Building: Party Mixer	LS2.A: Interdependent Relationships in Ecosystems (PS: MS-LS2-1 and LS2-2)
Will the Jaguar Survive in the Amazon?	LS2.B: Cycles of Matter and Energy Transfer in Ecosystems (PS: MS-LS2-3)
Brain Break: Would You Rather…?	ESS3.C: Human Impacts on Earth Systems (PS: MS-ESS3-3)
Rainforest Threats: Philosophical Chairs	*Science and Engineering Practices*
Podcast, Unit 7: Latitude and Longitude	Developing and Using Models
	Planning and Carrying Out Investigations
	Analyzing and Interpreting Data
	Constructing Explanations
Unit 8: Antarctica (Energy)	
Podcast on the Mission	*Disciplinary Core Ideas and Performance Expectations*
Which Way Did the Energy Go?	PS1.A: Structure and Properties of Matter (PE: MS-PS1-4)
Phases and Phase Changes	PS3.A: Definitions of Energy (PE: MS-PS3-3)
Insulation Adaptations	LS4.C: Adaptation
Brain Break? What Are You Doing?	*Science and Engineering Practices*
Insulation Design Challenge	Analyzing and Interpreting Data
Vocabulary Review: Hot Seat!	Constructing Explanations and Designing Solutions
Podcast, Unit 8: Latitude and Longitude	

Unit 9: Casablanca, Morocco (Heat and Temperature)	
Podcast on the Mission	*Disciplinary Core Ideas and Performance Expectations*
Hot or Cold?	PS1.A: Structure and Properties of Matter (PE: MS-PS1-2)
Brain Break: Group Matching	PS1.B: Chemical Reactions (PE: MS-PS1-2)
Feet in the Sand	PS3.A Definitions of Energy (PE: MS-PS1-4)
Reflection: Postcard from Morocco	PS3.B: Conservation of Energy and Energy Transfer (PE: MS-PS3-5)
Temperature Conversions	*Science and Engineering Practices*
Vocabulary Charades	Planning and Carrying Out Investigations
Podcast, Unit 9: Latitude and Longitude	Constructing Explanations
	Analyzing and Interpreting Data
Unit 10: Sydney, Australia (Atoms, Elements, Compounds and Scientific Notation)	
Podcast on the Mission	*Disciplinary Core Ideas and Performance Expectations*
The Size of Things, Part 1	PS1.A: Structure and Properties of Matter (PE:MS-PS1-1, MS-PS1-2)
Dihydrogen Monoxide	PS1.B: Chemical Reactions (PE: MS-PS1-2, MS-PS1-5)
Chemistry: Elements and Compounds	*Science and Engineering Practices*
The Size of Things, Part 2	Using Mathematics and Computational Thinking
Brain Break: Making Words with Friends	Developing and Using Models
Space Voyager	
Scientific Notation: Exploring Powers of 10 Multiplication	
Scientific Notation: Cornell Notes	
Homework Interview: Waves	
Podcast, Unit 10: Latitude and Longitude	
Unit 11: Moscow, Russia (Waves)	
Podcast on the Mission	*Disciplinary Core Ideas and Performance Expectations*
Wave Goodbye!	PS4.A: Wave Properties (PE: MS-PS4-2)
Brain Break: Watch Ya Mouth!	PS4.B: Electromagnetic Radiation (PE: MS-PS4-2)
Waves: Cornell Notes	PS4.C: Information Technologies and Instrumentation (PE: MS-PS4-3)
Wave Stations	*Science and Engineering Practices*
Waves Reflection Race	Developing and Using Models
Podcast, Unit 11: Latitude and Longitude	Using Mathematics and Computational Thinking

Units 12 and 13: Headquarters (Forensics)	
Podcast on the Mission	*Science and Engineering Practices*
Interactive Disease Detective	Analyzing and Interpreting Data
Team Building: Team Competition	Obtaining, Evaluating, and Communicating Information
Crime Scene Scenarios	Asking Questions
Fingerprinting	Constructing Explanations
Cryptogram	
Measurable ID!	
Brain Break: The Last Detail	
How Effective Is an Eye Witness?	
The Mystery Note	
Reflection: Units 12 and 13	
Podcast, Units 12 and 13: Latitude and Longitude	
Unit 14: NASA, Florida	
Podcast on the Mission	*Disciplinary Core Ideas and Performance Expectations*
Space Math	PS2.A: Forces and Motion (PE: MS-PS2-1, MS-PS2-2)
Basic Rocketry	ETS1.A: Defining and Delimiting Engineering Problems (PE: MS-ETS1-1)
Constructing a Bottle Rocket	ETS1.B: Developing Possible Solutions (PE: MS-ETS1-3)
Reflection: Unit 14	ETS1.C: Optimizing the Design Solution (PE: MS-ETS1-4)
	Science and Engineering Practices
	Developing and Using Models
	Planning and Carrying Out Investigations
	Using Mathematics and Computational Thinking
	Constructing Explanations and Designing Solutions
Unit 15: NASA, Florida	
Rocket Launch	*Disciplinary Core Ideas and Performance Expectations*
Wrapping It All Up	PS2.A: Forces and Motion (PE: MS-PS2-1, MS-PS2-2)
Celebrate Good Times	ETS1.A: Defining and Delimiting Engineering Problems (PE: MS-ETS1-1)
Podcast, Unit 15: End of Program	ETS1.B: Developing Possible Solutions (PE: MS-ETS1-3)
	ETS1.C: Optimizing the Design Solution (PE: MS-ETS1-4)
	Science and Engineering Practices
	Developing and Using Models
	Planning and Carrying Out Investigations
	Using Mathematics and Computational Thinking
	Constructing Explanations and Designing Solutions