

Have an idea?

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Grade Level 5: Wonders Unit 1

Big Idea: Where can an idea begin?

*Red indicates
grade level
science standard

Week	Essential Question	STEM Ideas for RWW	STEM Ideas for Lit Anth
Week 1	EQ: How do we get the things we need? (good start to energy transfer/food chains)	Mystery Science : Why do plants give us fruit? This is a 3rd grade lesson but still fun for 5th (requires a subscription)	Backtrack Energy : Use favorite meals to explore what it took to make them. 5-LS2-1 Students need to understand the flow of energy through an ecosystem.
Week 2	EQ: What can lead us to rethink an idea?	Engineer a raft	Digital Breakout Game in a team: Links to 5-LS2-1 or a choose a Map Scavenger Hunt: 1 or 2
Week 3	EQ: How can experiencing nature change the way you think about it?	Google Tour Builder of Roosevelt's Journey	Engineer a shelter out of miscellaneous materials. Test against wind, rain, and heat.
Week 4	EQ: How does technology lead to creative ideas?	Imagine a future technology. Use this document to help students work through their ideas, or host an inventor's fair. Need some inspiration ?	
Week 5	EQ: What are the positive and negative effects of new technology?	Own research about how cell phones, video games, or social media impact young people's lives negatively and positively. Write a persuasive argument one way or another or create a podcast to explain the effects.	

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Grade Level 5: Wonders Unit 2

Big Idea: What does it take to put a plan into action?

*Red indicates
grade level
science standard

Week	Essential Question	STEM Ideas for RWW	STEM Ideas for Lit Anth
Week 1	EQ: What do good problem solvers do?	American Revolution Digital Break Out or Build a Crate (here's another resource) that could survive the Boston Tea Party	
Week 2	EQ: What can you do to get the information you need?	Princess and the Pea Test	
Week 3	EQ: How do we investigate questions about nature?	Take kids outside to gather different looking leaves. In notebooks, students write describing words shape, size, lobes, etc. Use Plant ID Guide to identify	Link to KY Wildlife Field Guide Phenomena based inquiry, students develop questions they have about the world, choose 1 to make a Google Site about
Week 4	EQ: When has a plan helped you accomplish a task?	Use engineering design process to create a new invention to solve a common human problem.	Give old pieces of a computer, calculators, keyboards, pens, anything you don't care if the students dismantle and take apart. Have them record their questions/parts, the steps they took, and see if they can put the pieces back together after they are done.
Week 5	EQ: What motivates you to accomplish a goal?	Drag and Drop Poetry with Google Slides (here's a Halloween example) Visual Poetry (copy and paste a poem written and draw) example	

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Grade Level 5: Wonders Unit 3

*Red indicates
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science
standard

Big Idea: What kinds of experiences can lead to new discoveries?

Week	Essential Question	STEM Ideas for RWW	STEM Ideas for Lit Anth
Week 1	EQ: What can learning about different cultures teach us?	Google Tour Creator to create a tour of a different country. Use this planning sheet to help brainstorm. Start Lost in the Amazon Unit	Create a digital collage to showcase a custom of theirs with Adobe Spark (sign in with Google)
Week 2	EQ: How can learning about nature be useful?	Cont. or Start Lost in the Amazon Unit , Crash Scene Survival and Assessing the Situation or move to What Supplies to Bring	
Week 3	EQ: Where can you find patterns in nature?	Find old Foss Kit of Rocks and Minerals: Do scratch tests and make observations/conclude which rocks could be used for what. Pg. 68 has an outline pg. 10-14 have a pre/post test	
Week 4	EQ: What benefits come from people working as a group?	Design a device to clean an oil spill Or this if you have more time	Prosthetic engineering : Students could design a prosthetic hand or a fin for an injured dolphin
Week 5	EQ: How do we explain what happened in the past?	Google Earth Exploration of Machu Picchu Create a 3D model of an ancient structure either physically or digitally . Check out these Or use Tinkercad Tour Creator or Visit One already made	

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Grade Level 5: Wonders Unit 4

Big Idea: How do we decide what's important?

*Red indicates
grade level
science standard

Week	Essential Question	STEM Ideas for RWW	STEM Ideas for Lit Anth
Week 1	EQ: What kinds of stories do we tell? Why do we tell them?	Build a bridge/index card testing Engineer a device that makes a sound carry	Engineer a catapult to help Davy launch the comet further into space
Week 2	EQ: What can you discover when you give things a second look?	Design a device to protect the dog food from being eaten or the trash cans from being knocked over. Crime Scene Investigations Science Mystery of the Month (design something to solve the mystery) or Backyard Mysteries	
Week 3	EQ: What can people do to bring about a positive change?	Collaborative Google Site to showcase major figures in the Civil Rights Movement Compare the old methods of communication to today's communication, how would this look today? (text in emojis, create private coded facebook groups, etc.) Also address digital citizenship Rosa Parks Tour	
Week 4	EQ: Why are natural resources valuable? 5-ESS2-2	Water Distribution on Earth 5-ESS2-2, Full Lessons Check out Google Sunroof , type in address and see the potential for solar energy in your neighborhood. Compare to other locations Design a way to conserve water in the well, Save the Water	
Week 5	EQ: How do you express something that is important to you?	Drag and Drop Poetry with Google Slides (here's a Halloween example) Visual Poetry (copy and paste a poem written and draw) example	

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Grade Level 5: Wonders Unit 5

Big Idea: In what ways can things change?

*Red indicates
grade level
science standard

Week	Essential Question	STEM Ideas for RWW	STEM Ideas for Lit Anth
Week 1	EQ: What experiences can change the way you see yourself and the world around you?	Fraction Feast : Find a recipe, check serving size, double it, half it. Fraction BreakOut Game ; sign up with google to access free materials Growth Mindset	
Week 2	EQ: How do shared experiences help people adapt to change?	The Dust Bowl and how to reduce soil erosion by wind. 4-ESS2-1	Use pictures or music from the Dust Bowl or Great Depression to tell a story on a podcast. Use soundtrap
Week 3	*EQ: What changes in the environment affect living things? 5-ESS2-1	Sphere Interactions Video or this video and then Sort Sphere Project Inquiry of Spheres	Full Sphere's Lesson Spheres Coding of Interactions using Scratch
Week 4	EQ: How can scientific knowledge change over time? 5-ESS2-1	Design your own Mars Rover Create a Solar System Scroll to show distance from planet to planet Design a Scratch Space Game. Ideas are here . More great ideas are found here .	
Week 5	EQ: How do natural events and human activities affect the environment?	Engineer a Bee and the future of robotics Templates for Bee Making	If you have Lego WeDos, check out this lesson . Non Native Species lesson @frizzle_of_fcps

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Grade Level 5: Wonders Unit 6

Big Idea: How are we all connected?

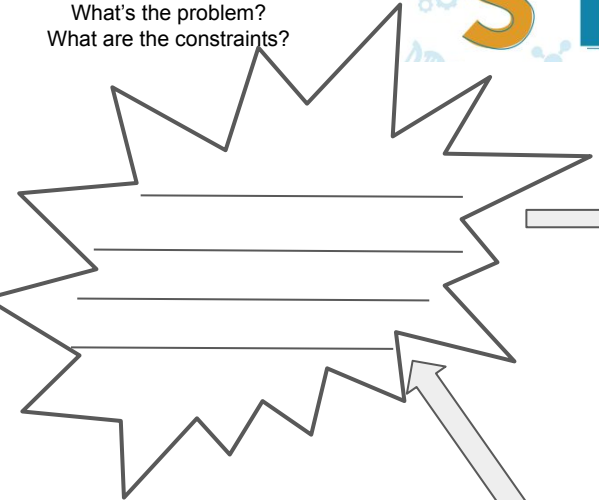
*Red indicates
grade level
science standard

Week	Essential Question	STEM Ideas for RWW	STEM Ideas for Lit Anth
Week 1	EQ: How do different groups contribute to a cause? 4-PS4-3	Design your Own Secret Code with Rubric from STEMscopes Using Navajo Code Secret Code Breakers Break the Code	Interactive Enigma Machine
Week 2	EQ: What actions can we take to get along with others?	Storyboard That! Or Book Creator to design a story about a superhero who saves the day or fights off bullies with a super power. Can use these slides to help format if wanted.	
Week 3	EQ: How are living things adapted to their environment?	Cold Climate Adaptations Create your Own Animal and then design a Stop Motion video to showcase its habitat using Adobe Spark or Screencastify with Google Slides. Tips here Design a shelter for an animal	
Week 4	EQ: What impact do our actions have on our world?	Tangled Web We Weave Yarn Activity Links to interactive games You are What You Eat Research Full Unit on Human Impact of Ecosystems Engineer a gardening tool to help the planting (shovel, basket, bucket)	
Week 5	EQ: What can our connections to the world teach us?	Create your own Google Tour of a place you have visited, or would like to visit. Write a descriptive poem for each scene.	

STEM CHALLENGE

ASK!

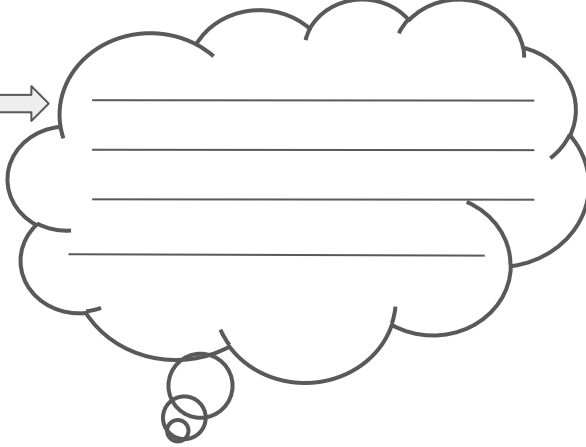
What's the problem?
What are the constraints?



A starburst-shaped box with five horizontal lines for writing.

IMAGINE!

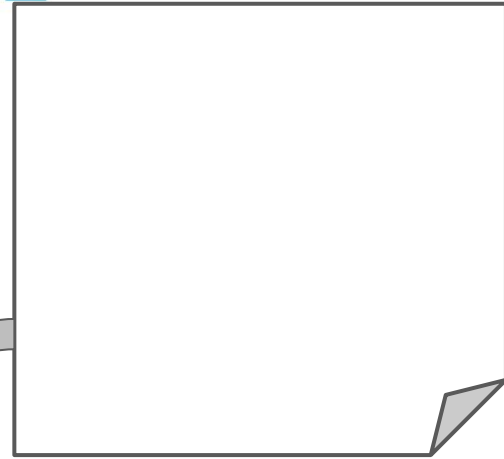
Research, Brainstorm, Develop Possible Solutions



A thought bubble-shaped box with five horizontal lines for writing.

PLAN

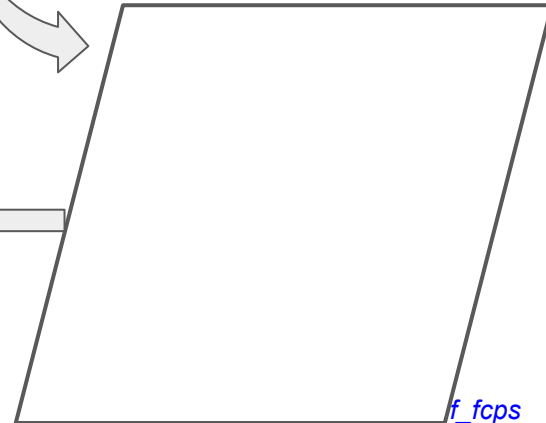
Materials, Draw



A rectangular box with a folded bottom-right corner, intended for drawing materials and plans.

CREATE and TEST

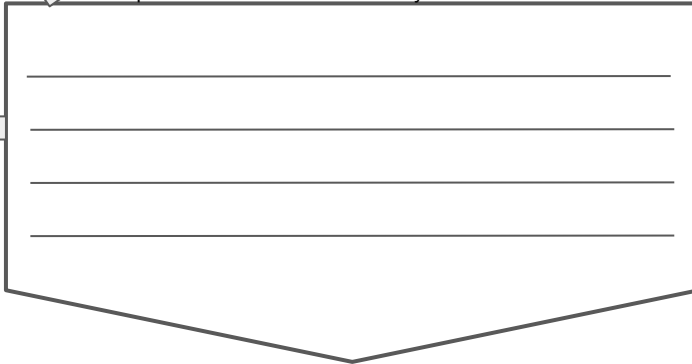
Build your prototype and try it out



A parallelogram-shaped box intended for drawing a prototype.

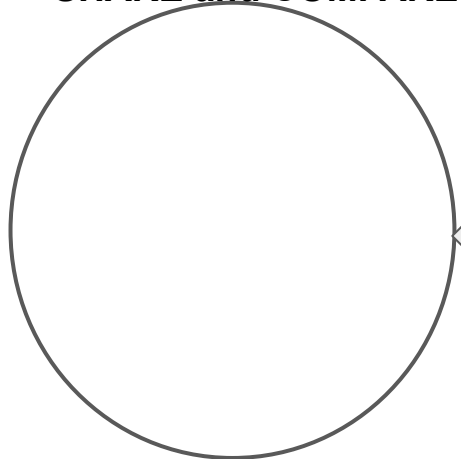
IMPROVE and Re-TEST

What problems occurred? What did you do to make it better?



A rectangular box with five horizontal lines for writing reflections.

SHARE and COMPARE



A circular box intended for sharing and comparing results.