Middle School **Project Guideline Project Identification Phase** Project Survey 1.3 Scenario Prototype Project Charter 1.12 Gantt Chart 1.14 Lessons 1.6 - 1.8 Budget 1.15 Gate 1 Lesson 1.16 **Specification Phase** Initial Prototype 2.1-2.3 Specifications 2.4 Prior Art 2.6 Conceptual Design Phase Gate 2 Lesson 2.8 Multiple Prototypes 3.2 Testing/Redesign 3.4 Documentation 3.5-3.7 Detailed Design Phase Gate 3 Lesson 3.8 Field Testing 4.2 User's Manual 4.3 Safety Analysis 4.6 **Assessments** Lessons 4.7 – 4.8 **Delivery** Design Review 5.2 **Project Delivery**



Middle School Curriculum

Lesson Information

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Design Phase	Lessons or Tasks to be completed	Bighter	standards	Artifact	/	RESERVE SESTION	nts /	žiude.	edical Edita	gita Reliection State Reliection	lice ⁵
	to Service-Learning	be able to create a brainstormed list of potential EPICS projects.	NGSS-MS-ETS1.1 ELA 6-8.9, WHST.6-8.8		Х		Х				
	1.2 MS Brainstorming Possible Projects	be able to create a brainstormed list of potential EPICS projects.	NGSS MS-ETS1-3. ELA SL. 6-8b-Follow rules of collegial discussions ELA SL.6-8c-Questioning	Initial List of Potential Projects							
hase	1.3 MS Survey of Members of the community	3 - 1 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	NGSS MS-ETS1-1. ELA- RST.6-8.9, WHST.6-8.8	Usable survey to gather information from the community							
<u> </u>	1.4 MS Code of Cooperation and Conduct	develop rules of engagement that will be the groundwork for the EPICS projects.	NGSS MS-ETS1-1. ELA SL. 6-8.1a ELA SL. 6-8b-Follow rules of collegial discussions ELA SL 6-8c-Questioning	Code of conduct guide						1.2 Code of Conduct Debate Carousel documents	
catio	1.5 MS Teaming Skills	qualities of a good team relationship and the important features that will help frame a quality EPICS project.	NGSS MS-ETS1-1 ELA SL. 6-8.1a ELA SL. 6-8b-Follow rules of collegial discussions ELA SL.6-8c-Questioning		X		X	X	X		Engineers without Boarders video
entifi	1.6 MS Intro into Projects using Scenarios	Engineers must have a deep understanding of the needs of the community to create projects and products that improve the standard of living of the under-served within the community. In this activity, the students will be using scenarios from projects that have been completed by EPICS students throughout the country as a way of understanding community problems and potential projects.	NGSS MS ETS 1-1, MS-ETS 1-4 ELA- WST 6-8.7- SL. 6-8.4	Initial Prototype that will be used to gather more information	X		X	Х	x		
Project Identification	Communicate	information to be able to create a prototype that would meet the needs of their project partner. In this activity, the students will use the prototype that they have created to help gather more information about the needs of their partner.	NGSS MS ETS 1-1, ELA SL. 6-8.1a ELA SL. 6-8b-Follow rules of collegial discussions ELA SL.6-8c-Questioning								
	1.8 MS Proof of Concept	information to be able to create a prototype that would meet the needs of their project partner. In this activity, the students will use the prototype that they have created for the scenarios as a way of learning about the proof of concept and background for creating their prototype in the Specification Phase.	NGSS MS ETS 1-1, ELA SL. 6-8.1a ELA SL. 6-8b-Follow rules of collegial discussions ELA SL.6-8c-Questioning								
		In this activity, we want to make the connection to the students and their own community, in that engineering design is all around. Students will explore their lives,	NGSS MS ETS 1-1, ELA RI. 6-8.7 ELA SL. 6-8.4- Presenting Claims and Evidence		×		x	×	X		

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1.10 MS Survey Results	In past lessons, the students have been in the process of gathering information to create a project that would serve the community. They have broken the potential project into tasks with standards and skills. Now the students will be taking all of the information for a potential project and evaluating which project would be most beneficial by using decision tools.	ELA RI. 6-8.1 ELA SL. 6-8.4- Presenting Claims and Evidence	Analysis of the Survey Results					
1.11 MS Project Partners	Students have learned that service-learning involves a partnership with the community. In this activity, we want to make the connection to the students and their own community, in that engineering design is all around. Students will explore their lives, researching and identifying how engineers impact their standard of living. Students present their example of engineering to the class. These examples can be any type of technology that can make life easier, anything from a cup to an electronic devise. Students will bring in a picture or the actual item.	NGSS MS ETS 1-1, ELA RI. 6-8.7 Compare and contrast text ELA WST 6-8.2- Writing informational texts ELA SL. 6-8.4- Presenting Claims and Evidence		×	×	×	×	
1.12 MS Project charter	In this reflective lesson, the students will be taking the information that they have gathered about their community, project partner and potential stakeholders and further condense it into an action plan called a Project Charter which will be the underpinning of their service-learning project.	NGSS MS ETS 1-1, ELA RI. 6-8.7 Compare and contrast text ELA WST 6-8.2- Writing informational texts ELA SL. 6-8.4- Presenting Claims and Evidence		x	x	×	x	
1.13 MS Pert chart and Project Managment	The students will continue to create a plan for their EPICS project by examining the information from their Project Charter and determine the tasks that will need to be completed for the successful delivery of the project. In this lesson they will be developing a PERT chart which will help them determine which tasks can be completed in tandem and the order in which other task will need to be accomplished.	NGSS MS ETS 1-1, ELA SL. 6-8.4- Presenting Claims and Evidence		х	x	x	х	
1.14 MS Gantt Chart	The students will continue to create a plan for their EPICS project by examining the information from their Project Charter and determine the tasks that will need to be completed for the successful delivery of the project. In this lesson they will be developing a Gantt chart which will help them determine which tasks can be completed in tandem and the order in which other task will need to be accomplished.	NGSS MS ETS 1-1, ELA RI. 6-8.7 Compare and contrast text ELA WST 6-8.2- Writing informational texts ELA SL. 6-8.4- Presenting Claims and Evidence		x	x	x	x	
1.15 MS Budget	The students have created a potential project based on data both qualitative and quantitative related to the needs within the community. They have gathered information that that lists the tasks and steps for the project. They will now need to develop a fiscal plan to implement this project.	NGSS MS ETS 1-1, ELA SL. 6-8.4- Presenting Claims and Evidence Mathematical Practices: MP.2- Reason abstractly and quantitatively MP.4- Model with Mathematics.						
1.16 MS GATE 1	In this lesson the students reflect on all of the information they have gathered about their community and a potential service-learning project. They will present the information that they have gathered about the stakeholders and the community and will develop a list of objectives and project constraints. The artifacts that will need to be included in the project proposal are: Project Charter Profile of the Project Partner Pert Chart with Critical Pathways Gantt Chart Projected Rudget	NGSS MS ETS 1-2, MS ETS 1-4 ELA SL 6-8.1 ELA SL 6-8.4		X	X	X	X	

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2.1 MS Developing a Prototype	The students will create a prototype using the information that they have gathered about their potential stakeholders as a way of empathizing with an underrepresented member of the community.	NGSS MS ETS 1-1, MS-ETS 1-4 ELA SL. 6-8.4- Presenting Claims and Evidence ELA- WST 6-8/7		Х		Х	x	Х	
2.2 MS Prototype to communication	Throughout this module, the students have been begun to explore how to gather information to be able to create a prototype that would meet the needs of their project partner. In this activity, the students will use the prototype to gather more information about the needs of their partner	NGSS MS ETS 1-1, MS-ETS 1-4 ELA SL. 6-8.4- Presenting Claims and Evidence ELA- WST 6-8/7							
2.3 MS Testing prototype	In this activity, the students will be taking the information that they have gathered from the stakeholders about the prototype and use that to develop a Proof of Concept Plan for their project. This process allows the students a way of testing and validating the project that they have developed to this point quantitatively. They will be evaluating the information, develop a testing protocol based on the project specifications, test and measure the prototype and draw conclusions about the viability and usefulness of the proposal.	NGSS MS ETS 1-1, MS-ETS 1-4 ELA SL. 6-8.1c- ELA- WST 6-8.1d	Testing Data for the Prototype						Testing protocol guide sheet
2.4 MS Specifications 2.5 MS Persona and Scenarios	The students have built a basic 3D prototype which has been used as a discussion tool with their community partner. The students are now ready to determine the specifications that are the framework for the creation of the project. In this lesson the students will be examining the prototype extensively to determine the design specifications. The students continue to gather information about the needs of their community and particularly a specific stakeholder. They are now going to create a scenario and persona	NGSS MS ETS 1-1, MS-ETS 1-4 ELA SL. 6-8.4- Presenting Claims and Evidence ELA- WST 6-8/7 NGSS MS ETS 1-1, MS-ETS 1-4	Specifications for the Project	х		х	х	х	Specifications Document
	as a way of further identifying the needs that this project addresses while protecting the identity of the stakeholders and their particular situations. The Scenarios and Personas will be used throughout the project as a way of visualizing the stakeholders.	ELA SL. 6-8.1c ELA- SL.6-8.1d	Personas and Scenarios for the Project	Х	Rubric Assessment of Persona and Scenario	Х	х	Х	Persona and Scenario development document
2.6 MS Prior Art	The students are developing a good understanding of the problem and the stakeholder and have developed an initial prototype. In this activity they are going to refine their thinking by looking for projects or products that are already on the market. The students will be examining why these products do not meet the needs of the stakeholders and how a new project would be needed.	NGSS MS ETS 1-1, MS-ETS 1-4 ELA SL. 6-8.1c ELA- SL.6-8.1d	List of State of the Art products similar to the project						Prior Art documentation sheet
2.7 MS Debrief Specifications	In this lesson the students reflect on all of the information they have gathered about their community and a potential service-learning project. They will present the information that they have gathered about the stakeholders and the community and will develop a list of objectives and project constraints. The artifacts that will need to be included in the project proposal are: - 2.3 Project Charter - 1.13 PERT Chart - 1.14 Gant Chart - 2.1 Specifications - 2.5 Persona and Scenarios - 2.6 Repressar of Prior Art	NGSS MS ETS 1-2, MS ETS 1-4 ELA SL 6-8.1 ELA SL 6-8.4			* Rubric for Specification Debrief * Individual Evaluation Rubric				GATE Student Sheet
2.8 MS GATE 2 Specifications Phase		NGSS MS ETS 1-2, MS ETS 1-4 ELA SL 6-8.1 ELA SL 6-8.4		X	Rubric for Gate 2 * Peer Evaluation Rubric * Self Reflection for	X	x	X	GATE Student Sheet

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0.4.140	The students have been gathering important information about their community to	NGSS MS ETS 1-1.		I				SCAMPER	Video- IDEO
3.1 MS	identify potential needs and stakeholders that would benefit from a service-learning	MS-ETS 1-4						Cards	
Brainstorming with	project. In this activity, the students will be not only brainstorming ideas that will help	ELA SL. 6-8.1c						Garas	https://www.y
SCAMPER	solidify thoughts, but learning important techniques that are used by engineers to	ELA- SL.6-8.1d							outube.com/w
	problem-solve and think creatively.								atch?v=IJMeLb
	,		Χ		Χ	Χ	Χ		FLqW8
3.2 MS Multiple	Creating multiple prototypes is a natural progression of the design process and the idea	NGSS MS ETS 1-1,						Multiple	
Prototype	generation that has occurred through the brainstorming. The students will work to create	MS-ETS 1-4						Prototypes	
	multiple prototypes that will be used as visuals for ideas and also discussion tools with	ELA SL. 6-8.1c						Student sheet	
	stakeholders, peers and teachers.	ELA- SL.6-8.1d						* Multiple Prototype	
			Χ		Х	Х	Χ	Interview sheet	
3.3 MS Prototype to	The students have created multiple prototypes, and have discussed these prototypes	NGSS MS ETS 1-1,		Rubric				linerview sneer	
communicate	with each other in the group. They are now going to take the best designs to the	MS-ETS 1-4		reflection on					
Communicato	stakeholders to get more information so they can begin working on the final working	ELA SL. 6-8.4		the use of					
	prototype.	ELA WST 6-8.7		Multiple					
			Χ	prototypes	Χ	Х	Χ		
3.4 MS Testing and	In this activity, the students will be taking the information that they have gathered from	NGSS MS ETS 1-1,							
Redesign	the stakeholders about the prototype and use that to develop a Proof of Concept Plan for their project. This process allows the students a way of testing and validating the	MS-ETS 1-4 MS-ETS 1-3							
	project that they have developed to this point quantitatively. They will be evaluating the	MS-ETS 1-3 MS-ETS 1-4							
	information, develop a testing protocol based on the project specifications, test and	ELA SL. 6-8.1c							
	measure the prototype and draw conclusions about the viability and usefulness of the	ELA- S2. 6-8.1d							
	multiple prototypes as they related to the needs of the stakeholders.	227 02.0 0.10							
	induspre prototypes as they related to the result of the state relation		Χ		Χ	Χ	Χ		
3.5 MS Modifying	As the students continue to add information about their project and are updating their	NGSS MS ETS 1-1,							
the Budget	specifications, they need to include this information in an updated budget. This	ELA RI 6-8.7		M - 416 - 4					
-	document will be a "living" document which will be adjusted as materials are purchased	ELA WST 6-8.2	Х	Modified Budget Sheet	Х	Х	Х		
3.6 MS Revisit the	and requisitioned. The students will continue to create a plan for their EPICS project by examining the	ELA SL 6-8.4 NGSS MS ETS 1-1,	^	Budget Sneet	^	^	^		
	information from their Project Charter and determine the tasks that will need to be	ELA RI 6-8.7							
Gantt Chart	completed for the successful delivery of the project. In this lesson they will review the	ELA WST 6-8.2							
	PERT chart which was created earlier in the design process and will update the	ELA SL 6-8.4		Updated Gantt					
	Information based on decisions made about the project.			Chart					
3.7 MS Revisit	In this lesson, the students will be taking this information and further condensing it,	NGSS MS ETS 1-1,							
Timeline	looking to create a comprehensive project management document that will further guide	ELA RI 6-8.7							
	the project by modifying the existing Gantt chart. In this lesson, we have included	ELA WST 6-8.2							
	another Gantt template. The students may find that they have modified their original	ELA SL 6-8.4							
	plan drastically and may only be able to use the original Gantt chart as a reference. You								
	as the expert for your students will help them decide what is best for their project.								
3.8 EPMS	In this lesson, the teams have evaluated the general design of their product, leaving the	NGSS MS ETS 1-2,							
Preparation for	smaller details for the Detailed Design Phase.	MS ETS 1-4							
GATE 3	The students will compile all of the documentation for the Conceptual Design Phase and								
GATES	create a presentation for GATE 3. This information will include:	ELA SL 6-8.4							
	Brainstorming ideas that you have created integrated in the Gantt and PERT charts								
	Information from your stakeholders gathered from the multiple prototypes								
	Information from the testing and redesign of your prototype								
	The updated budget for the project.								
	Durnous of the Cate 2: This document and presentation will be the foundation for the								
	Purpose of the Gate 3: This document and presentation will be the foundation for the Detailed Design phase of your project and must be approved by your teacher and your								
	community partner								
3.9 EPMS GATE 3	Purpose of the Gate 3: This document and presentation will be the foundation for the	NGSS MS ETS 1-2,							
	Detailed Design phase of your project and must be approved by your teacher and your	MS ETS 1-4							
	community partner	ELA SL 6-8.1	Х		Х	x	Y		
		ELA SL 6-8.4	^	<u> </u>	^	^	^	l	

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4.1 MS DFMEA	In this lesson, the students will be taking this information that they have gathered from	NGSS MS ETS 1-1,								
	the Gantt and PERT chart along with the Specifications document and go through the	MS ETS 1-2,								
	Engineering Design process of DFMEA (Design Failure Mode Effects Analysis). They	MS ETS 1-3,	Design Failure Mode		DFMEA chart					
	will be examining the project to date to determine any potential design flaws and how	MS ETS 1-4	•							
	those can be minimized for the success of the project.		listings for future		DFMEA	.,		.,		
	, ,		testings	Х	Planning	Χ	Х	Х		
4.2 MS Field	In this activity, the students will be working to test their prototype for usability	NGSS MS ETS 1-1,								
Testing	and reliability with the stakeholders. To make sure that the design is viable, the	MS ETS 1-2							Usability and	
	students will be taking quantitative evidence from testing protocols that will be	ELA RI 6-8.7							Reliability	
]	ELA WST 6-8.2			F: 11 F #					
	developed based on the DFMEA and qualitative evidence of the teams		Testing Data for		Field Testing				Testing	
	observing the use of the product by the stakeholders.	ELA SL 6-8.4	the Prototype		Plan				Document	
4.3 MS User's	As the students are preparing to deliver their working prototype, they need to	NGSS MS ETS 1-2,								
Manual	determine what information will be essential for the stakeholders to be able to	MS ETS 1-4								
Manaai	continue to use the project after the initial design and implementation is	ELA WHST 6-8.7			Rubric for					
	. ,									
	complete. The students will evaluate the information that is essential and create				evaluation of					
	a user's manual that will be given to the stakeholder upon delivery that will help	ELA WST 6-8.9			the User's				Template to	
	with troubleshooting and basic maintenance of the working prototype.		user's Manual for		Manual for				create a User	s
			the project		the Project				Manual	
4.4 MS Materials	The students have a good idea of the specifications for the project and have created the	NGSS MS ETS 1-2,								
	budget and updated said budget at least once to this point. They are now ready to create	MS ETS 1-4	j	l				1	Template	
List		ELA WHST 6-8.7]					l	embedded in	
	a materials list that will help them further define the project. This materials list and the								the student	
		ELA WST 6-8.8	List of materials for	l				1	sheet to list	
	and an easy way for the teacher, administrator or school to have a document to order	ELA WST 6-8.9							materials	
	supplies for the project.		the project							
4.5 MS	In this activity, the students will be observing the stakeholders use the prototype and will	NGSS MS ETS 1-1,]	l				1		
Demonstration with	be recording this information for possibly one last adjustment to the product. To make	ELA RI 6-8.7	j	l				1		
Stakeholders	sure that the design is viable, the students will be taking quantitative evidence from	ELA WST 6-8.2								
Stakerloiders	testing protocols that have been collected and the redesigned prototype. The students	ELA SL 6-8.4	Stakeholder							
	will use this information to complete the final testing of the working prototype before		Observation sheet							
	delivery.		using the prototype							
4.6 MS Safety	In this activity, the students will be conducting a hazard and safety analysis of their	NGSS MS ETS 1-1,								
•	project to determine if there are specific problems that might be eliminated or controlled	MS ETS 1-2,								
Analysis	through a redesign. The students will be using their DFMEA and their field testing as the	MS ETS 1-4	Safety Analysis for						Safety Analysis	
		ELA WHST 6-8.7	Prototype						Template	'
		ELA WST 6-8.8	Fiolotype						Template	
	of possible safety issues that will need to be the focus of this assessment.									
		ELA WST 6-8.9								
4.7 MS Peer	The students have gone through almost 4 phases of the EPICS design cycle and have	NGSS MS ETS 1-1,								
Evaluation	worked with their team to create a working prototype that is due to be delivered during	MS ETS 1-2,								
	the 5 th phase of the cycle. The students have evaluated the projects at each of the	MS ETS 1-4							Peer Evaluation	,
		ELA WHST 6-8.7							Rubric	'
	GATES, but this is the first time that they will be evaluating each other. The EPICS	ELA WST 6-8.8							Kubiic	
	program adheres to the philosophy that assessments are important for students to learn	ELA WST 6-8.9								
	to help each other through positive, yet authentic feedback.		Peer Evaluation							
4.8 MS Self	The students are on the last leg of their project and are ready to critique their progress	NGSS MS ETS 1-2,			Self Evaluation				Self Evaluation	
Evaluation	and the progress of their project. In this lesson, the students will evaluation their	MS ETS 1-4								
Lvaiuatioli	contributions to the project and the overall success of the project. It is your decision	ELA SL 6-8.1	j	l	Project			1	Project	
	WHEN the students do a formal self-evaluation. A suggestion is that the students do the	ELA SL 6-8.4	Self Evaluation	l	Evaluation			1	Evaluation	
	Individual Self-Evaluation at the end of each semester. Additionally it is essential to		Project Evaluation	l	Engineering			1	Engineering	
	conduct informal assessment just to "check in" with the groups to make sure they are		Engineering		Notebook				Notebook	
	making progress.		Notebook Evaluation	l	Evaluation			1	Evaluation	
4.9 MS Project	This lesson is to be used as a way of communicating with the individual students	NGSS MS ETS 1-2,			Engineering				1	
•	and the teams. As your students are completing their project, you will need to meet		Engineering	l	Notebook			1		
Feedback	with students individually and with their groups. This will be a time to review the	ELA SL 6-8.1	Notebook Checklist	l	Checklist			1		
	, , , ,		Individual Evaluation	l	Individual			1		
	individual assessment and the project assessment for the students to get feedback	ELM 3L 0-0.4						l		
	that will help them solidify their service-learning engineering experience.		Rubric		Evaluation					
4.40.110	In this whose the teams have contrated the second of the s	NOOD NO ETO 4 C			Rubric			-	+	
4.10 MS	In this phase, the teams have evaluated the general design of their product, leaving the	NGSS MS ETS 1-2,	j	l				1		
Preparation for	smaller details for the Detailed Design Phase. The students will compile all of the	MS ETS 1-4	j	l				1		
GATE 4	,	ELA SL 6-8.1	j	l				1		
	This information will include:	ELA SL 6-8.4	j	l				1		
	Using the information from the DFMEA to create new testing for the prototype to		j	l				1		
	prepare for delivery.									
	Information from the testing and redesign of your prototype]					l		
	The updated budget for the project.		j	l				1		
	Creation of the user's manual		j	l				1		
	Ordanon of the user's manual		j	l				1		
	Durance of the Cote & This decument and account for 1991 to the found of		j	l				1		
	Purpose of the Gate 4: This document and presentation will be the foundation for the		j	l				1		
	Detailed Design phase of your project and must be approved by your teacher and your		j	l				1		
	community partner				L		ļ	<u> </u>		

Detail Design Phase Gate 4		of the design process, the Delivery Phase. The students will be presenting the	NGSS MS ETS 1-2, MS ETS 1-4 ELA SL 6-8.1 ELA SL 6-8.4		Rubic for elements of the Presentation	Peer Evaluation of the Presentation
Delivery Phase	w Preparation	improved the design of the prototype. Information from the testing and redesign of the prototype The updated budget and materials for the project. Creation of the user's manual Purpose of the Design Review: The design review presentation along with the project documentation is the capstone of the project and is the "story" of the design process of going from an idea to an end working prototype that meets the needs of the stakeholders in the community. The artifacts that will need to be included in the Design Review GATE 5 include but are not limited to: Project Charter Updated Gantt Chart Specifications Decision Matrix DFMEA Rating Chart Testing data which includes: Testing data which includes: O Safety Analysis Updated Budget and Materials User's Manual	MS ETS 1-4 ELA SL 6-8.1 ELA SL 6-8.4	Rubric for Design Review Self Evaluation of the Project Self reflection of the presentation Peer Evaluation of the Project	Rubric for Design Review Self Evaluation of the Project Self reflection of the presentation Peer Evaluation of the Project	
5.2 MS Reviev	w	with their project and will explain clearly with evidence the prototype and how it has	NGSS MS ETS 1-2, MS ETS 1-4 ELA SL 6-8.1 ELA SL 6-8.4			Student Sheet Reflection on Design
on Des	esign	This is a reflective lesson where the students will be examining what the students have learned through the project and moving through the EPICS Engineering design cycle.	NGSS MS ETS 1.3 ELA SL 6-8.1 ELA SL 6-8.4		Rubric Reflection on Design	
	livery Debrief		ELA SL 6-8.1	Student Certificates for Project Delivery		