

Session 1: 10:15-11:10	Description	4-5	6-8	
A Bloody Mystery	Have you ever wondered what makes blood different from person to person? Learn the basics of blood typing with the Highschool of Science and Technology and use your knowledge to compare the DNA of three suspects to a crime scene!			X
Budget Sense	In this workshop by the United Way of Central Massachusetts-Women's Initiative , you'll learn all about the importance of budgeting and lifestyle choices and get your Budget Sense on!			X
Build a Persona of a Middle Schooler	Learn from Boston Scientific what user experience is and complete a couple of research deliverables as a team-including "building" a middle-school aged girl and an empathy map.	X		
Career Exploration	This is your chance to meet women in fascinating STEM fields, find out why they chose their particular field and what it takes to get there! With small groups, you'll have plenty of time for questions and answers and really find out what it takes to get where you want to go!	X	X	
Check Out Offshore Wind!	Using VR headsets and projecting on a screen, you can experience a day in the life of an offshore wind technician. Self-Reliance Corp will also have demonstrations of KidWind STEM activities!			X
Cybersafety	Learn about the real-life uses of technology and keeping yourself safe online The Office of District Attorney Joseph D. Early, Jr's office! Learn what information can be shared, and what needs to be kept private. Learn to be careful about who you trust online and how social media can affect your future. You can apply what you learn towards the NEW Cyberbullying Badges (not included).	X	X	
Design a Building that Even a Nor-easter Can't Knock Down!	Learn about severe weather in the Boston area, with a specific focus on nor'easters and hurricanes with STEAMsational . Learn how to design structures that will stand up to high winds and sudden floods, just like real structural engineers have to do!	X	X	Full
Flower Power	Meet a garden educator and learn about what it's like to work at New England Botanic Garden at Tower Hill . Participate in a flower dissection activity, get up close and personal with flowers as you investigate the process of pollination, and hear about our different program offerings. You can apply what you learn toward your Flowers Badge!	X	X	
Keeping Agriculture and Forests Safe-Identifying Insects in the Field	Every day, USDA/APHIS scientists work in the field identifying and monitoring plants and animals. Insects are in decline around the world and ecosystems around the world depend on them to survive and function properly. When insects are moved to places they don't belong, usually by humans and by accident, ecosystems get out of balance, putting native insects, forests, and agriculture in jeopardy. Join us to help in the fight to keep our forests and food supply safe from invasive insects by learning how to identify insects native to Massachusetts and invasive insects that are of great concern in Massachusetts.	X		
LEEPing into a Science Career	What do you want to be when you grow up? Do your future plans require knowledge in STEM? Have a fun and informative discussion with Clark University on positive ways and general life lessons on how to become a life-long learner in science.			X
Mind Games with Science: Think, Learn & Have Fun!!!	Learn more about how you think so that you can be safer, a better student, and a better communicator. You'll participate in 20-25 games which illustrate your strengths and weaknesses as you sense, perceive, think, learn, remember, make decisions, respond, and multi-task. We'll also discuss careers in human factors/ergonomics, which combines knowledge of engineering and psychology to design products which are safe, easy, and fun to use. Everyone participates in some activities and some adventuresome participants will participate "on stage". You may even win a prize with Education by Entertainment! IMPORTANT: this workshop is photographed for a slideshow during the program which is then shared with the participants following the program; by registering for this workshop all participants agree to have their photo taken for the purpose of the slideshow only.	X	X	Full
Mock HeartMat 3 Implant	Join Abbot for an interactive mock surgery where you will be able to take turns implanting a Heartmate 3 pump medical device!			X
Physical Changes of Matter	Experiment with dry ice and liquid nitrogen with The Discover Museum as we investigate the physical properties of solids, liquids, and gases. Shatter flowers and rubber bands, use a banana as a hammer, and shrink a metal ball in just seconds. You will work in stations that will allow you to work directly with dry ice and discover just how amazing science can be!			X Full

Prosthetic Party	Come help Gunner, the Jack Russell Terrier, walk again!! In this interactive session with Cummings School of Veterinary Medicine at Tufts University , you will have to think like an engineer to design a prosthetic leg for a dog that has lost his leg from bone cancer.		X	
Rhythm in Music	Play plastic buckets to demonstrate how computers and synthesizers play a big part in today's modern music. You'll have plenty of hands-on playing and demonstrations with The Rhythm Room!	X	X	Full
Suit Up for Space	It's all about space in David Clark Co., Inc.'s workshop! Try on a spacesuit, sample space food that astronauts would eat, play space games and even build a land rover.	X	X	Full
The Digital Landscape: Social Media and the Art of Storytelling	Learn through hands-on techniques how you can improve the way you tell stories through digital media. Video editing, mixed with social media can bring projects to life, entrepreneurs' dreams to realization, and of course, create some really cool content. Learn from HEARD Strategy & Storytelling some helpful tips and tricks to make your video and social media pop!			X
Session 2: 11:20-12:15	Description	4-5	6-8	
A Close-up Look at DNA	You have probably heard that DNA is the blueprint for life on Earth, but what does that mean? What does it look like? In this workshop, you will isolate some DNA from strawberries and talk about how we decode DNA with women who are engaged in molecular biology research.	X	X	
Budget Sense	In this workshop by the United Way of Central Massachusetts-Women's Initiative , you'll learn all about the importance of budgeting and lifestyle choices and get your Budget Sense on!			X
Build a Persona of a High Schooler	Learn from Boston Scientific what user experience is and complete a couple of research deliverables as small teams-including a question guide, persona, and an empathy map.			X
Career Exploration	This is your chance to meet women in fascinating STEM fields, find out why they chose their particular field and what it takes to get there! With small groups, you'll have plenty of time for questions and answers and really find out what it takes to get where you want to go!	X	X	
Check Out Offshore Wind!	Using VR headsets and projecting on a screen, you can experience a day in the life of an offshore wind technician. Self-Reliance Corp will also have demonstrations of KidWind STEM activities!			X
Cybersecurity Career Exploration	Have you ever thought about a career in cybersecurity? Join the Center for Cyber Safety and Education in either their career exploration panel or in the Expo Hall to find out what it takes to help provide a safe, positive, and secure online experience and how YOU too can make it a safer world!	X	X	
Evidence Response Crime Scene and Collection	Find out how STEM is involved with cases within the FBI with their evidence response crime scene and collection workshop!			X
Flower Power	Meet a garden educator and learn about what it's like to work at New England Botanic Garden at Tower Hill . Participate in a flower dissection activity, get up close and personal with flowers as you investigate the process of pollination, and hear about our different program offerings. You can apply what you learn toward your Flowers Badge!	X	X	
Keeping Agriculture and Forests Safe-Identifying Insects in the Field	Every day, USDA/APHIS scientists work in the field identifying and monitoring plants and animals. Insects are in decline around the world and ecosystems around the world depend on them to survive and function properly. When insects are moved to places they don't belong, usually by humans and by accident, ecosystems get out of balance, putting native insects, forests, and agriculture in jeopardy. Join us to help in the fight to keep our forests and food supply safe from invasive insects by learning how to identify insects native to Massachusetts and invasive insects that are of great concern in Massachusetts.			X
Know the Skin You're In!	Join UMass Medical School Dermatology Association as we learn more about skin care and being a doctor through arts and crafts. Learn about the layers of your skin, what makes a pimple, and what to do when you touch poison ivy through painting and more!	X		
LEEPing into a Science Career	What do you want to be when you grow up? Do your future plans require knowledge in STEM? Have a fun and informative discussion with Clark University on positive ways and general life lessons on how to become a life-long learner in science.			X
Lunch 1	An all-you-can eat lunch in the college dining hall with more choices than you can ever imagine! Options available for all diets, dietary restrictions and likes! Clean kitchen and seating area also available. All girls MUST pick one lunch session, either Lunch 1 OR Lunch 2.	X	X	

	Learn more about how you think so that you can be safer, a better student, and a better communicator. You'll participate in 20-25 games which illustrate your strengths and weaknesses as you sense, perceive, think, learn, remember, make decisions, respond, and multi-task. We'll also discuss careers in human factors/ergonomics, which combines knowledge of engineering and psychology to design products which are safe, easy, and fun to use. Everyone participates in some activities and some adventuresome participants will participate "on stage". You may even win a prize with Education by Entertainment! IMPORTANT: this workshop is photographed for a slideshow during the program which is then shared with the participants following the program; by registering for this workshop all participants agree to have their photo taken for the purpose of the slideshow only.	X	X	Full
Mind Games with Science: Think, Learn & Have Fun!!!				
Mock HeartMat 3 Implant	Join Abbot for an interactive mock surgery where you will be able to take turns implanting a Heartmate 3 pump medical device!		X	
Physical Changes of Matter	Experiment with dry ice and liquid nitrogen with The Discover Museum as we investigate the physical properties of solids, liquids, and gases. Shatter flowers and rubber bands, use a banana as a hammer, and shrink a metal ball in just seconds. You will work in stations that will allow you to work directly with dry ice and discover just how amazing science can be!		X	
Prosthetic Party	Come help Gunner, the Jack Russell Terrier, walk again!! In this interactive session with Cummings School of Veterinary Medicine at Tufts University , you will have to think like an engineer to design a prosthetic leg for a dog that has lost his leg from bone cancer.		X	
Rhythm in Music	Play plastic buckets to demonstrate how computers and synthesizers play a big part in today's modern music. You'll have plenty of hands-on playing and demonstrations with The Rhythm Room!	X	X	
Suit Up for Space	It's all about space in David Clark Co., Inc.'s workshop! Try on a spacesuit, sample space food that astronauts would eat, play space games and even build a land rover.	X	X	Full
The Digital Landscape: Social Media and the Art of Storytelling	Learn through hands-on techniques how you can improve the way you tell stories through digital media. Video editing, mixed with social media can bring projects to life, entrepreneurs' dreams to realization, and of course, create some really cool content. Learn from HEARD Strategy & Storytelling some helpful tips and tricks to make your video and social media pop!		X	
Session 3: 12:25-1:20	Description	4-5	6-8	
A Bloody Mystery	Have you ever wondered what makes blood different from person to person? Learn the basics of blood typing with the Highschool of Science and Technology and use your knowledge to compare the DNA of three suspects to a crime scene!		X	
Cybersafety	Learn about the real-life uses of technology and keeping yourself safe online The Office of District Attorney Joseph D. Early, Jr's office! Learn what information can be shared, and what needs to be kept private. Learn to be careful about who you trust online and how social media can affect your future. You can apply what you learn towards the NEW Cyberbullying Badges (not included).	X	X	
Evidence Response Crime Scene and Collection	Find out how STEM is involved with cases within the FBI with their evidence response crime scene and collection workshop!		X	
Expo Hall 3	Hands-on, interactive, informative and yes- SUPER FUN - Expo Hall is wall-to-wall STEM excitement! The hall has robots, Giant Games, experiments, demonstrations, raffles and so much more! All girls MUST pick only one Expo session; the Expo is offered during 3, 4, 5 and 6.	X	X	
Lunch 2	An all-you-can eat lunch in the college dining hall with more choices than you can ever imagine! Options available for all diets, dietary restrictions and likes! Clean kitchen and seating area also available. All girls MUST pick one lunch session, either Lunch 1 OR Lunch 2.	X	X	
Marshmallow Tower	Learn and build classic 2D and 3D shapes using toothpicks and marshmallows with Johnson Controls . Then see who can build the strongest and tallest towers!	X	X	
Rhythm in Music	Play plastic buckets to demonstrate how computers and synthesizers play a big part in today's modern music. You'll have plenty of hands-on playing and demonstrations with The Rhythm Room!	X	X	
Session 4: 1:30-2:25	Description	4-5	6-8	
A Bloody Mystery	Have you ever wondered what makes blood different from person to person? Learn the basics of blood typing with the Highschool of Science and Technology and use your knowledge to compare the DNA of three suspects to a crime scene!		X	

Chemistry Lab	Colorful chemical reactions spark creative scientific exploration. Discover the difference between a physical and chemical reaction while you change and monitor the pH of various household liquids	X		Full
Design a Boardgame	Learn from Boston Scientific what user experience is and use the persona and empathy map from a prior workshop (not a prerequisite but a great addition) to design a prototype of a boardgame.	X		
Expo Hall 4	Hands-on, interactive, informative and yes- SUPER FUN - Expo Hall is wall-to-wall STEM excitement! The hall has robots, Giant Games, experiments, demonstrations, raffles and so much more! All girls MUST pick only one Expo session; the Expo is offered during 3, 4, 5 and 6.	X	X	
Know the Skin You're In!	Join UMass Medical School Dermatology Association as we learn more about skin health and being a skin doctor through hands-on activities. Learn about the layers of your skin, what pimples actually are, and what happens when you get a bug bite!		X	
LEEPing into a Science Career	What do you want to be when you grow up? Do your future plans require knowledge in STEM? Have a fun and informative discussion with Clark University on positive ways and general life lessons on how to become a life-long learner in science.		X	
Marshmallow Tower	Learn and build classic 2D and 3D shapes using toothpicks and marshmallows with Johnson Controls . Then see who can build the strongest and tallest towers!	X	X	
Mock HeartMat 3 Implant	Join Abbot for an interactive mock surgery where you will be able to take turns implanting a Heartmate 3 pump medical device!		X	
Prosthetic Party	Come help Gunner, the Jack Russell Terrier, walk again!! In this interactive session with Cummings School of Veterinary Medicine at Tufts University , you will have to think like an engineer to design a prosthetic leg for a dog that has lost his leg from bone cancer.		X	
Suit Up for Space	It's all about space in David Clark Co., Inc.'s workshop! Try on a spacesuit, sample space food that astronauts would eat, play space games and even build a land rover.	X	X	Full
The Digital Landscape: Social Media and the Art of Storytelling	Learn through hands-on techniques how you can improve the way you tell stories through digital media. Video editing, mixed with social media can bring projects to life, entrepreneurs' dreams to realization, and of course, create some really cool content. Learn from HEARD Strategy & Storytelling some helpful tips and tricks to make your video and social media pop!		X	
U CAN	Learn ways to build your inner strength and power by using creative outlets like journaling, arts and crafts, and much more with U CAN! Learn how to create your future plans with a positive outlook and new ways of thinking. We'll also explore concepts on fixed mindset versus growth mindset and how to turn our fears into strength!		X	
Session 5: 2:35-3:30	Description	4-5	6-8	
A Bloody Mystery	Have you ever wondered what makes blood different from person to person? Learn the basics of blood typing with the Highschool of Science and Technology and use your knowledge to compare the DNA of three suspects to a crime scene!		X	
A Close-up Look at DNA	You have probably heard that DNA is the blueprint for life on Earth, but what does that mean? What does it look like? In this workshop, you will isolate some DNA from strawberries and talk about how we decode DNA with women who are engaged in molecular biology research.	X	X	Full
Chemistry Lab	Colorful chemical reactions spark creative scientific exploration. Discover the difference between a physical and chemical reaction while you change and monitor the pH of various household liquids	X		Full
Design an App	Learn from Boston Scientific what user experience is and use the persona and empathy map from a prior workshop (not a prerequisite but a great addition) to design a mobile app that would help high school freshmen.		X	
Expo Hall 5	Hands-on, interactive, informative and yes- SUPER FUN - Expo Hall is wall-to-wall STEM excitement! The hall has robots, Giant Games, experiments, demonstrations, raffles and so much more! All girls MUST pick only one Expo session; the Expo is offered during 3, 4, 5 and 6.	X	X	
Forensic Science at Your Fingertips	Forensic Scientists commonly use fingerprints to identify individuals. How can they do that? What are the best surfaces to observe and collect fingerprints? Join Bay Path University to learn the answers, and practice your skills!	X		
LEEPing into a Science Career	What do you want to be when you grow up? Do your future plans require knowledge in STEM? Have a fun and informative discussion with Clark University on positive ways and general life lessons on how to become a life-long learner in science.		X	

Marshmallow Tower	Learn and build classic 2D and 3D shapes using toothpicks and marshmallows with Johnson Controls . Then see who can build the strongest and tallest towers!	X	X	
Mind Games with Science: Think, Learn & Have Fun!!!	Learn more about how you think so that you can be safer, a better student, and a better communicator. You'll participate in 20-25 games which illustrate your strengths and weaknesses as you sense, perceive, think, learn, remember, make decisions, respond, and multi-task. We'll also discuss careers in human factors/ergonomics, which combines knowledge of engineering and psychology to design products which are safe, easy, and fun to use. Everyone participates in some activities and some adventuresome participants will participate "on stage". You may even win a prize with Education by Entertainment! IMPORTANT: this workshop is photographed for a slideshow during the program which is then shared with the participants following the program; by registering for this workshop all participants agree to have their photo taken for the purpose of the slideshow only.	X	X	Full
Mock HeartMat 3 Implant	Join Abbot for an interactive mock surgery where you will be able to take turns implanting a Heartmate 3 pump medical device!		X	
Prosthetic Party	Come help Gunner, the Jack Russell Terrier, walk again!! In this interactive session with Cummings School of Veterinary Medicine at Tufts University , you will have to think like an engineer to design a prosthetic leg for a dog that has lost his leg from bone cancer.		X	
Suit Up for Space	It's all about space in David Clark Co., Inc.'s workshop! Try on a spacesuit, sample space food that astronauts would eat, play space games and even build a land rover.	X	X	Full
The Digital Landscape: Social Media and the Art of Storytelling Session 6: 3:40-4:35	Learn through hands-on techniques how you can improve the way you tell stories through digital media. Video editing, mixed with social media can bring projects to life, entrepreneurs' dreams to realization, and of course, create some really cool content. Learn from HEARD Strategy & Storytelling some helpful tips and tricks to make your video and social media pop!		X	
Description		4-5	6-8	
A Bloody Mystery	Have you ever wondered what makes blood different from person to person? Learn the basics of blood typing with the Highschool of Science and Technology and use your knowledge to compare the DNA of three suspects to a crime scene!		X	
A Close-up Look at DNA	You have probably heard that DNA is the blueprint for life on Earth, but what does that mean? What does it look like? In this workshop, you will isolate some DNA from strawberries and talk about how we decode DNA with women who are engaged in molecular biology research.	X	X	
Design a Building that Even a Nor-easter Can't Knock Down!	Learn about severe weather in the Boston area, with a specific focus on nor'easters and hurricanes with STEAMsational . Learn how to design structures that will stand up to high winds and sudden floods, just like real structural engineers have to do!	X	X	
Expo Hall 6	Hands-on, interactive, informative and yes- SUPER FUN - Expo Hall is wall-to-wall STEM excitement! The hall has robots, Giant Games, experiments, demonstrations, raffles and so much more! All girls MUST pick only one Expo session; the Expo is offered during 3, 4, 5 and 6.	X	X	
Forensic Science at Your Fingertips	A demonstration of how those working in the field of Forensic Science commonly use fingerprints to identify individuals. How can they do that? What are the best surfaces to observe and collect fingerprints? Join Bay Path University to learn the answers, and practice your skills!		X	
Marshmallow Tower	Learn and build classic 2D and 3D shapes using toothpicks and marshmallows with Johnson Controls . Then see who can build the strongest and tallest towers!	X	X	
Mind Games with Science: Think, Learn & Have Fun!!!	Learn more about how you think so that you can be safer, a better student, and a better communicator. You'll participate in 20-25 games which illustrate your strengths and weaknesses as you sense, perceive, think, learn, remember, make decisions, respond, and multi-task. We'll also discuss careers in human factors/ergonomics, which combines knowledge of engineering and psychology to design products which are safe, easy, and fun to use. Everyone participates in some activities and some adventuresome participants will participate "on stage". You may even win a prize with Education by Entertainment! IMPORTANT: this workshop is photographed for a slideshow during the program which is then shared with the participants following the program; by registering for this workshop all participants agree to have their photo taken for the purpose of the slideshow only.	X	X	Full
Mock HeartMat 3 Implant	Join Abbot for an interactive mock surgery where you will be able to take turns implanting a Heartmate 3 pump medical device!		X	

Suit Up for Space	It's all about space in David Clark Co., Inc. 's workshop! Try on a spacesuit, sample space food that astronauts would eat, play space games and even build a land rover.	X	X	Full
The Digital Landscape: Social Media and the Art of Storytelling	Learn through hands-on techniques how you can improve the way you tell stories through digital media. Video editing, mixed with social media can bring projects to life, entrepreneurs' dreams to realization, and of course, create some really cool content. Learn from HEARD Strategy & Storytelling some helpful tips and tricks to make your video and social media pop!		X	
Trivia! UX Principles Edition	Learn about what user experience is and have your knowledge (or best guesses) of guiding research and design principles put to the test!	X	X	
U CAN	Learn ways to build your inner strength and power by using creative outlets like journaling, arts and crafts, and much more with U CAN! Learn how to create your future plans with a positive outlook and new ways of thinking. We'll also explore concepts on fixed mindset versus growth mindset and how to turn our fears into strength!		X	