

Timestamp	What subject(s) do you teach?	How often do you assign project work that requires students to collaborate and build or create together?	How often do you collaborate within your discipline or department?	How often do you collaborate across disciplines?	If offered PD regarding STEM in your classroom how likely are you to attend and apply the practices you learn?	Which cross-curricular discipline could you see yourself collaborating with on a regular basis?	Please explain what you believe STEM and STEAM mean with regards to your classroom and instruction.	Please explain how or what elements of a STEM or STEAM education and community you are currently aware of within the Munster Schools.	Please list or explain any ideas you would like to see implemented to build a more cohesive STEAM education for our students.
2/7/2017 12:13:00		4	2	1	6	math	working with other disciplines on projects for the kids		
2/9/2017 12:43:05		6	3	1	8	Just other science teachers, but very rarely even them.	Linking seemingly unrelated subjects together in the context of specific careers that require multifaceted, multi-talented candidates.	PLTW	We have a brilliant staff that have plenty of great ideas already. Lack of ideas isn't the problem. We need staff and incentive for both staff and full-loaded students to execute these ideas.
2/13/2017 13:24:40	Pre-Calculus and Algebra	3	10	1	6	Science	Real Life Applications of Mathematics	None	Not sure
2/13/2017 13:28:53	World History, Economics, Psychology, Geography	5	8	2	3	English			
2/13/2017 13:29:17		5	9	2	7	Social Studies	It is harder within an English class but I can see my students working on projects or presentations with STEM in mind. They could create presentations or research topics which fit into that category. Those projects would still reflect the skills I need them to demonstrate as English students.		
2/13/2017 13:31:45	English	4	8	5	5	Social Studies	The writing skills we teach from the English department will come in handy for teachers who teach the STEM or STEAM courses. Those students will use those skills to write about what they have learned.	Engineering, Career Center, Robotics, Science Olympiad	Hopefully, students will be writing more, detailing the processes they are completing to accomplish their project.
2/13/2017 13:31:48	Social Studies- AP Human Geography/Advanced Sociology	6	9	6	7	Literature and Environmental Science	I can reach more topics in Human Geography. I can use it to teach critical thinking skills. I can use it to help with population, health, and studying a global economy.	N/A	
2/13/2017 13:32:11	English	9	8	1	3	Social studies	Students explore topics in STEM fields in their research and writings for my class.	Courses	I'd like to see teachers outside of ELA incorporate writing in their OWN classrooms.
2/13/2017 13:34:23	English/Language Arts	7	10	3	5	Social Studies	English/Language Arts provides students with the skills to communicate within STEM courses. Becoming strong readers, writers, speakers, and listeners will aid them in every aspect of their future careers.	Science courses; technology, design and engineering courses; and math classes are integral subjects for our future. Our Munster schools need to invest in our students' future by providing them a comprehensive STEM education.	Scenario-based projects and project-based curricula can be integrated into all subject areas. Additionally, critical reading, critical thinking, and writing skills should be taught within each discipline so that we increase the rigor for students but also provide them with choice and allow for personal interests to be explored.
2/13/2017 13:35:35	English	8	5	2	5	Social Studies	STEM can be utilized by using different texts about science, math, engineering. We do not currently read many STEM texts, though.	Not sure	
2/13/2017 13:36:41	Computers and Business	9	5	2	10	Math and Science	The use of technology	Computer classes, Science academic teams, art club, theatre activities in and out of class,	
2/13/2017 13:37:58	Senior Composition, World Literature, American Literature/Junior English	4	7	1	6	Social Studies/History	Science, Technology, Engineering, and Math.	Robotics Club, Science Olympiad.	I think the idea already introduced for writing across the curriculum will help students in the Science, Math, and Computer technology courses.

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2/13/2017 13:55:52	Biology, Human Genetics, Microbiology, Botany	4	3	2	6	Math	To go deeper into a topic...community involvement.....project based/group	We the people? PLW	Time to collaborate with colleagues. Freedom/time to navigate away from the textbook and testing to a project
2/13/2017 14:01:15	Spanish	8	9	5	7	History, English	In foreign languages, we are teaching skills that have real-life application, encourage collaboration among students and are necessary for future success. World languages--language in general--is a collaborative practice and best practices tell us that students learn the most effectively when they have the ability to work with others and to see the real-life pay off behind the knowledge	We have implemented STEM curriculum at MHS; Math, science, English & I believe Social Studies use team learning/problem based learning as core components. Math curriculum encompasses STEM as do groups such as Science Olympiad	I would love to see a freshman or senior seminar available as an option for our students that involved problem solving across a variety of topics. Semester class?
2/13/2017 14:03:09	Physical Education and Lifesaving	5	5	4	5	Health and Wellness			
2/13/2017 14:03:51	Honors Geometry, Geometry	9	10	2	8	Science	To be able to coloborate with other disciplines and use the information to expose the kids to real world situations.	Robotics	
2/13/2017 14:19:28	Social Studies	5	10	5	6	English	It is a pursuit in education that puts an emphasis on the areas of science, technology, engineering, and math. In terms of my classroom, I try to focus on those areas.	There are certain parts of our curriculum and elementary grades that will focus on those areas.	I believe that currently we are doing a excellent job in implementing STEM into the education of our students.
2/13/2017 14:21:01	Science	8	9	3	5	Math	Integration of many skill sets toward a global goal. Kind of "cross-curricular" meets "problem-based learning"	Not certain	Control over which courses/departments dominate student time outside of class.
2/13/2017 14:25:59	All Subjects Special Education	5	6	6	5	Special Ed	Sharing of ideas	Just those I have been exposed to in faculty meetings	Gen. Ed /special ed.
2/13/2017 14:34:20	spanish	6	10	3	10	history maybe math and science	I believe we incorporate mostly art in our classroom and instruction when we present lessons on various artists such as Rivera, Dali, etc. We also incorporate some math by teaching the students how to count in Spanish and to tell time. In addition, we incorporate technology in our lessons almost on a daily basis. We use a variety of technology resources to enhance our lessons and to help create a better learning environment for our students.	it is a curriculum based on science, technology, art, engineering and mathematics	I would like to learn about ways to continue linking WL curriculum to the STEM/STEAM curriculum
2/13/2017 14:42:32	AP Biology, Anatomy and Physiology, Zoology	7	3	2	5	English, Math	Hands on, collaborative, real world problem based		
2/13/2017 14:42:33	math	4	10	2	7	science	try to incorporate cross curricular concepts and show students how math is used in real world situations and other areas	robotics, other clubs,	
2/13/2017 14:45:02	Math	3	10	3	8	Science	Integrating problem-based work across science, technology, engineering, the arts, and math. The more relevant we can make situations to the kids, the more meaningful it is to them. They will likely hang onto these types of learning opportunities in the long-run.	Robotics, Science Olympiad, PLTW, Jim Davidson's courses, Lego League, Academic Teams	More integration with the arts. Those departments have become quite widdled down over the years, but they are the foundational pieces to a lot of what kids need to be able to do.

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2/13/2017 15:14:26	AP Studio Art, Painting 1,2,3, 2D II, Drawing, Intro to 2D Art	8	10	5	10	Technology and Engineering for Development, Science for Research	I personally prefer STEAM, as it incorporates "Art" into the mix within the design team.	I am part of the STE(A)M Team. I am aware of health related community design solutions; researching and developing solutions within the Science, Tech, Engineering, Art and Math STE(A)M make-up. PTLW classes	The designers need to have access to the clients they are designing for. It would be wonderful to have real world challenges for the students to design for in game and graphic design (TECH/Engineering, Math), architectural and landscape architecture (Botany, Project Bio, Science Labs), color development (chemistry/physics), etc...
2/13/2017 15:27:19	Social Studies	5	4	5	2	English / Language Arts	Certainly the problem solving methods of STEAM and STEM have value across the curriculum as do their job / college attractiveness for our student's future success, but the additional emphasis on STEAM or STEM concerns me. STEM /STEAM tends to leave the broader social studies behind. Certainly we can do STEAM projects that have a social studies bent (public policy projects for example), but those projects tend to drag social studies into STEM not the other way around. Yes, we can talk social studies into that STEM project but my concern is that the STEM will be dictating the curriculum not the social studies.	We have a host of programs in the Munster Schools that further STEM and STEAM: JETS, Robotics, Science Olympiad, lots of AP courses. We also have the PTLW engineering program.	Not yet sure. I'm still coming to terms with being a liberal arts/humanities person in a growing STEAM world.
2/13/2017 15:36:42	Spanish/ESL	1	1	1	7	US History/Government	Foreign Languages not included	Robotics, Science Olympiad, Some computer courses	Coding
2/13/2017 15:46:34	World Language	6	3	1	3	social studies	Mine is not a stem field. We do some math-related book activities (Conexiones) and simple flash cards (answering aloud in Spanish). We do some projects which include student-produced art and also examine the works of famous artists from Spanish-speaking countries and briefly discuss them.	Math Counts (middle school), robotics team, Science Olympiad, Academic Super Bowl, art club. The extracurricular activities are key for students who want to truly delve into STEAM subjects.	More advanced computing classes. More dedicated coaching of the Math Counts team including help from MHS math club members.
2/14/2017 9:10:24	Mathematics	4	8	2	5	English	Using technology so the students can discover math topics, understanding how art and geometry are connected, and looking for the connections between statistics and science and how statistics has helped the science world like in the medicine field.	robotics club, art club, science Olympiad, AP classes, college courses at local university	It would be nice to have a smaller student to teacher ration, where the teachers would have more an opportunities/time to work with other teachers within their own departments let alone other departments within the school. It would also be nice to have a two hour blocked class where two teachers from different subjects, like communications and statistics or science and engineering teach a combined course together and students get double credit, and take both courses at once.

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2/14/2017 9:14:33	English	7	10	5	7	Social studies, PCC	As an English teacher, building and strengthening students' writing, research, argumentative skills is essential to successful STEM and STEAM program. Fostering critical thinking and collaboration skills through writing carries over to what is happening in those classes.	Offering Project Lead the Way; offering IEP in 8th grade; supporting extracurricular activities such as Robotics, Lego League, science club and Science nights	I would like to collaborate with a STEM to STEAM teacher on a unit, maybe a nonfiction unit or a novel unit such as Animal Farm or 1984. Senior Composition definitely lead towards a collaborative effort with STEM & STEAM
2/14/2017 9:32:21	Family and Consumer Science	8	1	2	5	English	Both mean that I should incorporate more science, technology, engineering, and math into my curriculum.	I know we offer PLTW and Art classes, as well as our normal math and science classes. Not sure how much more we can do with the current amount of teachers we have in the buildings.	I don't know much about it to even offer an idea on this...
2/14/2017 9:35:04	chemistry	5	4	3	7	Math	My classroom and instruction covers the chemistry section of the science category.	I think there are quite a few subjects that are directed toward STEM and STEAM education.	
2/14/2017 10:56:21	Trigonometry, Statistics, Algebra 2i, and Geometry	10	5	3	8	English or Science	Taking things to a higher level	None	Training
2/14/2017 13:02:37	AP Psychology	5	8	2	5	English	In AP Psychology, you have to be able to apply what you know to situations. This is not a course where memorization works; you have to know the material to apply it to a variety of situations. To me, STEM is about apply what you know to a real-world problem.	I am aware that we are pushing the idea, especially in science and math classes. I feel that our Robotics Club is a good example of an organization using it within our school.	I can see how our art and computer design classes that can be incorporated like our science and math classes. I think all parties (teachers, students, parent, etc.) need to be informed of our schools within the school. I feel that too often, people assume that other know more than they do. Communication is the key to any type of implementation. We cannot assume that anyone knows anything.
2/15/2017 9:05:02	Social Studies	4	10	1	3	English	Incorporating science, technology, engineering & math into instruction.	Project Lead the Way, Computer Science Classes	
2/15/2017 14:32:28	Economics & AP Economics	3	4	3	9	Yes	My classroom often utilizes math skills to analyze the logic of the course.	I would say I know a lot about our science curriculum, our technology curriculum and our math curriculum.	
2/15/2017 17:30:00	English	5	6	1	10	Science (12, tech writing) Social Studies (11, US History); Business/computers (business writing)	We should be doing STEAM in a big way, here, but our English Department is somewhat insular. Also, putting the "Arts" into Science-Technology-Engineering-Math to get STEAM requires our department redefine ourselves as both a core 40 AND fine/practical arts department. Unfortunately, that means uncompensated development or workload and/or more staff. We're kind of stuck between the test-prep track we're on and a hard place.	One-to-one computing and Math XL are the only areas I know. English is untouched and uses by-products of the movement, like Moodle.	Wow! I would never pitch STM on any of these because Munster is unwilling to pay or is afraid of "the new" or "the other." Find me a grant, to start, to show you're serious and we'll put a writer in every science classroom, a writing coach, and writing center to support students in their writing for their WAC assignment.
2/15/2017 18:59:53	United States History	5	7	3	3	Language Arts	Technology within the classroom and instruction allows students to research		

