Missouri Teacher Professional Development Survey

For K-12 Educators Teaching Science, Technology, Engineering, or Mathematics

If you provide any instruction to students in science, technology, engineering, or mathematics, we consider you a "STEM teacher." In order to develop useful professional development in STEM areas, we need to hear from you. Your responses will help us to evaluate and strengthen K-12 STEM education in Missouri.

Please completely and carefully fill in each chosen circle with a #2 pencil or blue/black pen.

Do not use ink that soaks through the paper.

YOUR TEACHING

Reporting only on your current teaching assignment, which subject(s) do you teach at the following grade evels? (<i>Please mark all that apply.</i>) Grades K-3 Grades 4-6 Grades 7-8 Grades 9-12					
	Grades K-3	Grades 4-6	Grades 7-8	Grades 9-12	
Mathematics	\bigcirc	\bigcirc	\bigcirc	\circ	

Mathematics Science Technology	0	0	0	0
Engineering	Ö	Ö	Ö	Ö

What proportion of your teaching assignment is in each subject?

	No teaching	Less than half	About half	More than half	All of my teaching
Mathematic	s O	\circ	\circ	\circ	0
Science	0	0	0	0	\bigcirc
Technology		0	0	0	
Engineering		\circ	0	\circ	\circ

Including this school year, how many years have you taught at the K-12 level?

0-2 years	3-5 years	6-10 years	11-15 years	16-20 years	Over 20 years
0	\circ	\circ	\circ	\circ	\circ

PROFESSIONAL DEVELOPMENT HOURS

For this survey, **professional development** is an organized activity for the purpose of learning techniques to improve teaching and student learning.

How many hours of professional development have you participated in during the past 12 months?

0 hours	\circ	6-10 hours	\circ	41-60 hours	\circ
1-2 hours	\circ	11-20 hours	\circ	61-80 hours	\circ
3-5 hours	\circ	21-40 hours	\circ	more than 80 hours	\circ

How many of these hours emphasized STEM teaching or learning?

0 hours	\circ	6-10 hours	\circ	41-60 hours	\circ
1-2 hours	\circ	11-20 hours	0	61-80 hours	0
3-5 hours	\circ	21-40 hours	\circ	more than 80 hours	\circ

PROFESSIONAL DEVELOPMENT PREFERENCES

Please select your level of agreement with the fo	llowing stat					
		Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
I would like to attend professional development for STEM	teaching and	Disagree	Disagree	iveutiai	Agree	Agree
learning to improve my instructional practices.		0	0	0	0	0
Quality professional development programs for STEM tea	ching and					
learning are readily available to me.	nunfanniamal	0	0	0	0	\circ
I am able to adopt or adapt strategies learned from STEM development programs into my teaching practice.	professional	\circ		\bigcirc		\bigcirc
I have support from my principal to pursue professional de	evelonment fo		0	0	0	O
STEM teaching and learning.	svelopinent lo		0	0	0	\bigcirc
The students in my school stand to benefit from STEM pro	ofessional					
development available to our teachers.		0	0	\circ	0	0
My participation in STEM professional development would	I help to					
improve my teaching.		0	0	\circ	\circ	\circ
STEM professional development would be received positi	vely within my					
school.		0	\circ	\circ	0	0
From the following list of aspects of a profession each aspect is to you. Learning about new and innovative teaching strategies Learning from other teachers Learning from experts in the field Networking with other teaching professionals Receiving feedback on teaching practices Accessing ready-to-use materials Meeting professional development requirements from my school or district Learning about new ideas emerging from STEM fields	nal developm Not Important	nent progr Slightly Importan	Mode	rately rtant))	w important Very Important O O O O O O O O O O O O O O O O O O O	Extremely Important O O O O O O O O O O O O O O O O O O
How interested would you be in attending profes in the following ways? Training or workshops during school hours Recurring sessions during school hours Recurring sessions outside of school hours One-time, short workshops (1-2 hours) One-time, half day workshops One-time, all day workshops Weekend trainings Intensive summer workshops (1-2 weeks)	sional deve Not Interested O O O O O O O O O O O O O O O O O O O	Possibly Interested	Defin	itely sted))))))))))		

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Ongoing support programs

(mixture of trainings and support throughout the year)

There are a variety of on-site, off-site, and virtual ways to participate in professional development. To what extent would you be interested in participating in the following modes of professional development?

Not	Possibly	Definitely	
Interested	Interested	Interested	
\circ	\circ	\circ	
0	0	0	
\bigcirc	\bigcirc	\circ	
\circ	\circ	\circ	
0	0	0	
\circ	\circ	\circ	
\circ	\circ	0	
0	0	0	
)			
\bigcirc	\circ	\circ	
0	0	0	
		Interested OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	Interested Interested O O O O O O O O O O O O O O O O O O O

PROFESSIONAL DEVELOPMENT TOPIC AREAS

(For each statement below, please record 2 responses - one for <u>Importance</u> and one for <u>Interest.</u>)

Based on your current teaching assignment, how important are the following teaching and learning topics AND how interested would you be in participating in professional development about these topics?

	Ir	nportance (of Topic		Interest in Attending PD			
	Not	Slightly	Moderately	Very	Not	Possibly	Definitely	
	mportant	Important	Important	Important	Interested	Interested	Interested	
Use of educational technologies to support								
learning	\circ	\circ	\circ	\circ	0	0	\circ	
Integrating literacy practices with STEM learning	\circ	\circ	\circ	\circ	\circ	\circ	\circ	
Formative assessment for STEM learning	\circ	\circ	\circ	\circ	0	\circ	\circ	
Problem-based learning	\circ	\circ	\circ	\circ	0	\circ	\circ	
Interdisciplinary STEM teaching	\circ	\circ	\circ	\circ	0	0	\circ	
Scientific practices (e.g., modeling and								
argumentation)	\circ	\circ	\bigcirc	\circ	\circ	\circ	\circ	
Engineering design practices	0	\circ	\circ	\circ	\circ	0	\circ	
Mathematical practices	\circ	\circ	\circ	\circ	\circ	\circ	0	
Inquiry-based laboratory activities	\circ	\circ	\circ	\circ	0	0		
Supporting girls and minorities in STEM	0	0	\circ	0	0	0	0	
Preparing students for achievement tests	0	\circ	\circ	0	0	\circ		
Using real-world issues in the classroom	0	0	0	0	0	0	0	
Analysis of "big data"	0	\circ	0	0	0	0		
Supporting classroom discourse	Ó	Ó	Ó	Ö	O	O	O	
Integrating authentic STEM research into								
the classroom	0	\circ	0	0	0	\circ	0	
Next Generation Science Standards	0	0	0	0	0	0	0	
Common Core State Standards for Mathematics	0	\circ	0	0	0	0		
New Missouri learning standards	0	0	0	0	0	0	0	
Instructional strategies for meeting the needs of								
diverse learners	\circ	\circ	\circ	\circ	0	0	\circ	
Aligning instruction and curriculum with standard	s 🔵	0	0	0	0	0	0	
Strategies for student use of mobile technologies	;							
(e.g., iPads, Chromebooks, smart phones)	0	0	0	\circ	0	0		
Integrating science, technology, engineering, and	t	_	_			_	_	
math	0	0	\circ	\circ	0	0	\circ	

Based on your current teaching assignment and the curriculum designated by your district, how <u>important</u> is it for you to teach about the following STEM topics AND how <u>interested</u> would you be in participating in professional development about these topics?

development about these topics?	Import	ance to Tea	ach about th	nis Topic	Inte	rest in Atte	nding PD	
	Not Important	Slightly Important	Moderately Important	Very Important	Not Interested	Possibly Interested	Definitely Interested	
Genetic engineering	0	\circ	0	\circ	0	\circ	0	
Climate change	\circ	0	\circ	\circ	\circ	0	\circ	
Plant science	\circ	0	\circ	\circ	0	0		
Bioinfomatics	\circ	\circ	\circ	\circ	\circ	\circ	\circ	
Coding/computer programming	\circ	\circ	\circ	\circ	\circ	\circ	\circ	
Soil health	\circ	0	\circ	\circ	\circ	0	\circ	
Local weather patterns	\circ	\circ	\circ	\circ	\circ	\circ	\circ	
Use of drones to collect scientific data	\circ	\circ	\circ	\circ	0	\circ	\circ	
Robotics	\circ	\circ	\circ	\circ	0	\circ	0	

INTERNET ACCESS

From the following types of online access, please rate how often each type is available to you in your school building?

•	Never	Sometimes	Always	I Don't	
	Available	Available	Available	Know	
Reliable access to an internet connection at my school for email and					
web browsing	\bigcirc	\circ	\circ	\circ	
Reliable access to high speed internet at my school for viewing videos and					
streaming content	\circ	\circ	\circ	\circ	
Access to online learning management systems (e.g., Blackboard, Moodle,					
and Global Classroom) at my school	\circ	\circ	\circ	\circ	
Access to lesson portals (specialized websites with vetted collections of lesson					
plans, e.g., eThemes) at my school	\circ	\circ	\circ	\circ	
Access to social media sites like Twitter and Facebook at my school	0	\circ	\circ	0	

COMMENTS

Please add any comments about your STEM professional development needs.

THANK YOU VERY MUCH FOR TAKING THE TIME TO ANSWER THIS SURVEY.

Please return survey in the enclosed postage-paid envelope or to ARC, 2800 Maguire, Columbia, MO 65203



APCODE