Perceptions of Teaching as a Profession: Year 5
Opening
Welcome to the Perceptions of Teaching as a Profession (PTaP) survey!
This survey is intended for <b>student participation</b> only.  If you are a faculty member, please contact your colleague for a link to the faculty-facing survey.
Please proceed to the next page to begin.

### PTaP - Consent

#### INFORMED CONSENT TO PARTICIPATE IN A RESEARCH PROJECT

Project Title: Get the Facts Out: Changing the Conversation around STEM Teacher Recruitment

Researcher: Wendy K. Adams, Ph.D., Physics Department

Phone Number: 970-539-6154

E-mail: wkadams@mines.edu

Purpose and Description: The purpose of this study is to inform and improve national and local campaigns to get the facts out about the teaching profession. We are conducting research to understand which of the recommended strategies in the Get the Facts Out toolkit are most effective, both in terms of impact on faculty and student perceptions and faculty uptake over time. Our initial work has indicated the possibility that the effectiveness of these strategies may vary by discipline and student culture. To answer these questions, we will monitor student and faculty perceptions of the teaching profession and their interactions with the recommended activities in the toolkit via annual surveys. Additionally, we will visit a diverse set of Study Sites annually to learn about their experiences with the toolkit and the impact on student and faculty perceptions of the profession.

As a research participant, we are asking you to complete a survey or to participate in an interview about the perceptions of teaching as a profession. This data will only be used in a de-identified manner. If your name is being collected now, it is only for the purpose of matching your responses to your future responses, if you choose to participate in a survey or interview at a later date. All names/identifiers will be stripped from the data before the data Is analyzed and all data reporting will be done in aggregate.

If you are taking the PTaP survey for extra credit offered in a course, then your name only (not your survey answers) will be reported to the instructor of your course so they can assign you the extra credit.

There are no foreseeable risks or discomforts to participants who participate beyond the time spent to participate. There are also minimal direct benefits to participants beyond the potential of personal satisfaction in improving the perceptions of teaching as a profession; however, your participation will have the indirect benefit of aiding in the understanding of the views of the profession of teaching and hopefully help faculty understand how to better identify and support future teachers.

We will take every precaution to protect your individual information. Data collected from surveys will have personal identifiers stripped before any analysis is completed and only data in aggregate will be reported. All data collected, audio recordings, and any notes taken during interviews will be kept on a password protected computer or if hand written, in a locked filing cabinet in a locked office. Research reports will include aggregate results and will not provide any individually identifiable information but will include discipline and institution identification.

The Colorado Governmental Immunity Act determines and may limit the legal responsibility of the Colorado School of Mines (CSM) if an injury happens because of this study. Claims against CSM must be filed within 180 days of the injury.

Questions about participants' rights may be directed to Human Subjects Team at CSM at human subjects@mines.edu

Participation is voluntary. You may decide not to participate in this study and if you begin participation you may still decide to stop and withdraw at any time. Your decision will be respected and will not result in loss of benefits to which you are otherwise entitled. This includes any extra credit offered by an instructor for

tached to the responses.	ey results will only be viewed in a <i>de-identified</i> manner, i.e. without your nam
What is your first nam	ne?
What is your last nam	e?
What is your student l	ID number?

Perceptions of Teach	ing as a Prof	ession: Year	5	
PTaP page 1				
about teaching. You a following options (un 1. Strongly Disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly Agree	re asked to r less otherwis	rate each sta se indicated)	itement by	
	't understand		_	your feeling about the blank. If you have no strong
4. I know at least one valuable profession.	e professor in 1	my departme	nt who thinl	ks grade 7-12 teaching is a
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
5. I know who to talk	to at my colle	ge if I wanted	d to become	a grade 7-12 teacher.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
6. My department wo	ould be proud	if I became a	grade 7-12	teacher.
Strongly Disagree	O Disagree	O Neutral	Agree	Strongly Agree
7. Professors in my d	epartment dis	cuss teaching	j as a careei	r option with students.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
8. Professors in my d	epartment end	courage stude	ents to cons	ider grade 7-12 teaching.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
9. If I told my advisor	r I wanted to b	oe a grade 7-1	.2 teacher, s	he would encourage me.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
10. If I became a gra	de 7-12 teache	er. I would no	t be making	the most of my degree.
Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
11. If I were to becom	ne a grade 7-1	2 teacher, I v	vould give u	p being a scientist.

Neutral Agree

O Strongly Agree

Strongly Disagree Disagree

results, modify and t	· ·		ridis with yo	ur students, learn from the
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
13. I owe it to myself	f to try a caree:	r in my degre	e field befor	re I try to teach.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
14. I would like a car	reer where I he	elp people.		
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
15. Grade 7-12 teach	ning is a good b	oack up plan i	for me.	
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
16. Those who go int	to grade 7-12 to	eaching tend	to be acade	mically weaker students.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
17. Grade 7-12 teach	ning is a good c	areer choice	: In general.	
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
18. Grade 7-12 teach	ning is a good c	areer choice	: For me.	
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
19. Grade 7-12 teach	ning would be f	ulfilling: In g	eneral.	
Strongly Disagree	Diag area		_	
	Disagree	O Neutral	Agree	Strongly Agree
20. Grade 7-12 teach				Strongly Agree
20. Grade 7-12 teach  Strongly Disagree				Strongly Agree  Strongly Agree
Strongly Disagree	ning would be f	fulfilling: For  Neutral	me.	Strongly Agree
	ning would be f	fulfilling: For  Neutral	me.	Strongly Agree
Strongly Disagree  21. I would be proud  Strongly Disagree	Disagree  to tell people  Disagree	Tulfilling: For  Neutral  that I am a gr	me.  Agree  rade 7-12 te  Agree	Strongly Agree  acher.  Strongly Agree
Strongly Disagree  21. I would be proud	Disagree  to tell people  Disagree	Tulfilling: For  Neutral  that I am a gr	me.  Agree  rade 7-12 te  Agree	Strongly Agree  acher.  Strongly Agree
Strongly Disagree  21. I would be proud Strongly Disagree  22. What fraction of	Disagree  to tell people  Disagree	Tulfilling: For  Neutral  that I am a gr	me.  Agree  rade 7-12 te  Agree	Strongly Agree  acher.  Strongly Agree
Strongly Disagree  21. I would be proud Strongly Disagree  22. What fraction of 28%	Disagree  to tell people  Disagree	Tulfilling: For  Neutral  that I am a gr	me.  Agree  rade 7-12 te  Agree	Strongly Agree  acher.  Strongly Agree

23. As a grade 7-12 to Strongly Disagree	eacher, I would Disagree	d be paid as v	well as other	r careers using my degree.  Otrongly Agree
24. How much do you	ı think a grade	e 7-12 science	e teacher's s	starting pay is in your state?
<\$30,000				
~\$40,000				
~\$50,000				
~\$60,000				
>\$70,000				
25. What do you thinl current major?	k your starting	g pay would b	e if you gra	duate with a <b>bachelor's</b> in your
<b>&lt;</b> \$30,000				
~\$40,000				
~\$50,000				
~\$60,000				
>\$70,000				
26. I know what types receive.	s of benefits (1	retirement, tii	me off, healt	th insurance) grade 7-12 teachers
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
27. Grade 7-12 teach	ers have comp	oetitive benefi	its compare	d to other careers.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
28. Grade 7-12 teach	ers can retire	comfortably a	and not have	e to work after retirement.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
29. Grade 7-12 teach	ers can retire	comfortably l	pefore age 6	50.
Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
30. Grade 7-12 teach	ing would be i	ntellectually	stimulating.	
Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
31. I think I would en	joy grade 7-12	z teacning da	y to day.	

Strongly Disagree				
Outongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
33. If I went into grad	de 7-12 teachi	ng, my peers	would be su	ipportive.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
Opes Not Matter				
34. If I went into grad	de 7-12 teachi	ng, my family	would be s	upportive.
Strongly Disagree	O Disagree	O Neutral	Agree	Strongly Agree
Ooes Not Matter				
35. If I went into grad	de 7-12 teachi	ng, my profes	sors would	be supportive.
Strongly Disagree	Oisagree Oisagree	O Neutral	Agree	Strongly Agree
Ooes Not Matter				
36. I want to become	a grade 7-12	teacher.		
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
For what reasons?				
37. I want to become Strongly Disagree For what reasons?	a college tead	cher.  Neutral	Agree	Strongly Agree
ror what reasons:				
38. Getting a teaching	g license is a o	difficult proce	ss that take	es too much time.
38. Getting a teaching  Output  Strongly Disagree	g license is a o	difficult proce	ess that take	es too much time.  Strongly Agree
Strongly Disagree	Disagree	O Neutral	Agree	
	Disagree	O Neutral	Agree	
Strongly Disagree  39. I plan to pursue to Strongly Disagree	Disagree eacher certific Disagree	Neutral cation at my i	Agree nstitution. Agree	Strongly Agree  Strongly Agree
Strongly Disagree  39. I plan to pursue to Strongly Disagree	Disagree eacher certific Disagree	Neutral cation at my i	Agree nstitution. Agree	Strongly Agree  Strongly Agree
Strongly Disagree  39. I plan to pursue to Strongly Disagree  40. I plan to pursue to Strongly Disagree	Disagree  eacher certific  Disagree  eacher certific  Disagree	Neutral  Cation at my in Neutral  Cation through Neutral	Agree  nstitution.  Agree  h another ro  Agree	Strongly Agree  Strongly Agree
Strongly Disagree  39. I plan to pursue to Strongly Disagree  40. I plan to pursue to Strongly Disagree	Disagree  eacher certific  Disagree  eacher certific  Disagree	Neutral  Cation at my in Neutral  Cation through Neutral	Agree  nstitution.  Agree  h another ro  Agree	Strongly Agree  Strongly Agree  oute.  Strongly Agree

Perceptions of	of Teaching	as a Profession:	Year 5
----------------	-------------	------------------	--------

# PTaP page 2

42. I would become a	grade 7-12 te	eacher if the p	oay were eq	ual to my other career options.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
43. I would become a	grade 7-12 te	acher if the l	nours were l	better.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
44. I would become a	ı grade 7-12 te	acher if I cou	ıld retire co	mfortably before age 62.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
45. I would become a	grade 7-12 te	acher if I tho	ught teache	ers were happier in general.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
46. I would pursue te	eacher certifica	ation if I did r	not have to t	take extra time to graduate.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
47. I would pursue te	eacher certifica	ation if I did r	not have to s	spend extra money.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
48. I know that I coul	ld never be a g	grade 7-12 tea	acher.	
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree

# PTaP page 3

49. I enjoy working w	vith people.			
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
50. I enjoy working w	vith teens.			
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
F1 For the most next		ana friandla		
51. For the most part				
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
52. Please choose "ag	gree" to show	that you are 1	not a robot.	
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
53. I could become a	great grade 7	-12 teacher.		
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
54. I might become a	grade 7-12 te	acher after n	ursuina ano	ther career first
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
55. Grade 7-12 teach	ing is a stable	career choic	e.	
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
			_	
56. As a grade 7-12 to	eacher, I coulc	l find a job al:	most anywh	ere.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
57. Nearly everyone	is capable of u	nderstanding	math and s	science if they work at it.
Strongly Disagree	Disagree	( Neutral	Agree	Strongly Agree
Strongly Bloagroo	Dibagroo	) Noutrai		Swongry rigido
58. Many students ju	st don't have t	he natural ab	oility to succ	eed in my subject area.
Strongly Disagree	O Disagree	O Neutral	Agree	Strongly Agree
50 Almost all studen	te can learn a	av cubicet wit	th dodication	n
59. Almost all studen				
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree

Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
1. Very strong stude notivation to enjoy the		t waste their	skills on tea	aching, even if they have the
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree
2. I was inspired by	a great grade	7-12 science	or math tea	acher.
Strongly Disagree	Disagree	O Neutral	Agree	Strongly Agree

PTaP Demographics
63. I am currently in my year in college.
◯ 1st
○ 2nd
◯ 3rd
O 4th
○ 5th
>5th
64. I am currently pursuing
an undergraduate degree
a masters degree
a doctoral degree
Other (please specify)
65. If you are taking this survey as part of a course, please list the course name here. (i.e. PHYS 112)
I am taking this survey as part of:
66. If you are taking this survey as part of a course, which section of this course (or instructor
last name) are you in?
67. I am:
Male
Female
Gender Fluiu
Prefer not to answer
Other (please specify)

68. I am (choose all that apply)
White or Caucasian
Black or African American
Hispanic or Latino
Asian or Asian American
American Indian or Alaska Native
Native Hawaiian or Other Pacific Islander
Middle Eastern or North African
Prefer not to say
Other (please specify)
* 69. I am majoring in:
Physics (physics teaching, engineering physics, applied physics,)
Chemistry (chemistry teaching, ACS chemistry, biochemistry,)
Math (math teaching, applied math, statistics,)
Computer Science
Biology (biology teaching, cellular biology,)
Other (please list your primary major first)
* 70. What is the name of the institution you currently attend?

## GFO Student Experience Questionnaire

71. How many faculty members do you remember hearing mention grade 7-12 teaching as a career option?  0  1  2-4
omore than 4
72. Have you had a conversation with a faculty member about <b>becoming</b> a grade 7-12 teacher?  No Yes
73. Have you heard a faculty member mention grade 7-12? (check all that apply)  teacher work-life balance  teacher salaries  teacher retirement  teacher retention
teachers' control over what they teach  classroom management  teacher loan forgiveness  teacher interaction with school administration  teacher interaction with parents of students  None of the above

	Vithin your department, have you seen any media addressing any of the topics listed in above question? (check all that apply)
	esentation: Busting Myths About the Teaching Profession
	Teacher's Life by the Numbers Infographic
	Poster
	Flyer
	Data handouts (handouts with facts and graphs)
	Brochure
	Electronic display
	Email
	Video
	Website
	I have not seen anything related to those topics.
	Other (please specify)
_	
	They think it is an acceptable career option.  They have reservations about it as a career option.  They think it is a poor career option.
	I have no idea.
Please	e explain.
with	are you interested in sharing any media related to the topics listed in the above question your family? This could be in the form of brochures, or flyers, etc.  No  Yes  us know if you have any comments to share with us.
	as know if you have any comments to share with as.
	as know if you have any comments to share with as.
	A A

**Teaching Profession Facts** 

Thank you for your participation! You can learn more about the teaching profession at www.GettheFactsOut.org.

## Did you know...

Teachers rate their lives better than all other occupation groups, trailing only physicians? [1] -Gallup-Healthways poll of 172,000 U.S. working adults

There are student loan forgiveness programs and scholarships for math and science teachers?

Most teaching jobs have better retirement benefits than other jobs you can get with the same degree?

You can get a job almost anywhere as a science or math teacher in the US or abroad?

Mid-career teacher salaries typically range between \$62,000 and \$104 ?

Behind every advance in medicine or technology is a teacher who left a lasting impression?

### Teachers are happy with their careers:

**78%** of grade 7-12 teachers are still teaching in year 5. [2] Compared to other careers this is a very high retention rate, surpassed only by federal government positions.



Intellectual challenge and satisfaction rate higher for teaching careers than private sector STEM careers for physics graduates. [3]

### Salary:

In Denver, base teacher salaries start at about \$50,000 for academic-year contracts. Average STEM annual starting salaries by major are as follows [4], [5]:

i. Biology: ~\$40,700

ii. Chemistry: ~43,600

iii. Math: ~\$58,000

iv. Physics: ~\$54.000

The district and state where you teach, experience, level of education, and performance can all significantly impact your salary as a teacher.

Top K-12 teachers in some states and districts can easily earn more than \$150 0, not counting bonuses, additional income for extracurriculars, or summer jobs.

### **Retirement:**

Most US states offer a pension plan for teachers, and the average age for teachers to retire in the US is 59. For example, Colorado teachers have PERA which allows teachers to **retire before age 60 with a pension** of 87.5% HEI. The typical pension is worth two to four times more than the typical private sector 401K plan.

- $\hbox{[1] https://news.gallup.com/poll/161516/teachers-love-lives-struggle-workplace.aspx}$
- [2] 2015 U.S. Dept. of Ed: Public School Teacher Attrition and Mobility in the First Five Years: Results From the First Through Fifth Waves of the 2007–08 Beginning Teacher Longitudinal Study
- [3] http://www.aip.org/statistics
- [4] "Recruiting Trends Re