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Implementation

Purpose of the PTaP
To assess student perceptions about grade 7-12 math and science teaching as a profession.

Course Level: What kinds of courses is it appropriate for?
Upper-level, Intermediate, Intro college, and High school

Content: What does it assess?
Beliefs / Attitudes (Personal Enjoyment, As a Career Choice, Others Support Me Teaching, My Department Values and Encourages, My Department Supports Me Teaching, Employee benefits and Stability, Teaching is Scientific, Nurturer, Back Up Plan, All Students Can Learn, I would if ...)

Timing: How long should I give students to take it?
10 minutes

Example Questions
My department would be proud if I became a Grade 7-12 teacher.

1. Strongly Disagree
2. Disagree
3. Neutral
4. Agree
5. Strongly Agree

I would become a Grade 7-12 teacher if the pay were equal to my other career options.

1. Strongly Disagree
2. Disagree
3. Neutral
4. Agree
5. Strongly Agree

Access: Where do I get the assessment?
Download the assessment from physsport at www.physport.org/assessments/PTaP.

Versions and Variations: Which version of the assessment should I use?
The most recent version of the PTaP, version 2, was released in 2017.

Administering: How do I give the assessment?
- The PTAP can be given as a paper/pencil survey or online using SurveyMonkey (PTaP). If you would like to give the PTAP using SurveyMonkey, please contact the developers first.
- Give it as both a pre- and post-test. This measures how students' perceptions of teaching change.
  - Give the pre-test at the beginning of the term.
  - Give the post-test at the end of the term.
- Use the whole survey, with the original wording and question order. This makes comparisons with other classes meaningful.
- Make the survey required, and give credit for completing the survey. This ensures maximum participation from your students.
- For more details, read the PhysPort Guides on implementation:
  - PhysPort PTAP implementation guide (www.physport.org/implementation/PTAP)
Scoring: How do I calculate my students’ scores?

- Download the scoring rubric from PhysPort (www.physport.org/key/PTaP)
- There are several different question types on the PTaP that are scored differently. For most questions, percent favorable is calculated based on the percent of the responses where the respondent agrees with the expert (and percent unfavorable where respondent disagrees with expert).
- Some questions are simple tallies of answering in the affirmative.
- Statement 47: To be included in analysis must choose option 4 (agree). If not, delete the entire respondent.
- For more scoring details see below.
- For instructions on scoring the PTaP, see the PhysPort PTaP implementation Guide (www.physport.org/implementation/PTaP)
- See the PhysPort Expert Recommendation on Best Practices for Administering Belief Surveys for instructions on calculating shift and effect size (www.physport.org/expert/AdministeringBeliefSurveys/)

Scoring Rules

Categories I – IX, Overall and All Categories scoring: Comparison to the expert (same technique as the CLASS).

- When scoring these categories each answer for each respondent is compared to the expert.
- Percent favorable is calculated based on the percent of the responses where the respondent agrees with the expert.
- Percent unfavorable is calculated based on the percent of the statements where the respondent disagrees with the expert.
- Note, the sum of favorable and unfavorable do not need to equal 100% since a neutral response neither is an agreement nor a disagreement with the expert.
- Once category favorable and unfavorable scores have been calculated for each respondent, the favorable for all are averaged and the unfavorable for all are averaged.

Category X scoring: Considered favorable only if the respondent shows a consistent growth mindset.

- Favorable and unfavorable scores for each respondent calculated the same as for categories I – IX.
- Once favorable and unfavorable scores have been calculated for each respondent, the overall favorable score for the sample is the fraction of respondents who have 100% favorable. No unfavorable score is reported.

Category XI scoring: Tally of the number of students who would if any of the statements are answered in the affirmative (agree or strongly agree).

- Favorable and unfavorable scores for each respondent calculated the same as for categories I – IX.
- Once favorable and unfavorable scores have been calculated for each respondent, the overall favorable score for the sample is the tally (number) of respondents who have greater than 0% favorable. No unfavorable score is reported.

Reported Statements: Tallies (number answering in the affirmative – agree or strongly agree) reported for each of these three statements
33. I want to become a grade 7-12 teacher
36. I plan to pursue teacher certification at my institution.
37. I plan to pursue teacher certification through another route.

Binning the above scores: It’s valuable for a department to be able to parse the students who want to become a teacher from those who do not.

- Report above scores for those who answer #33 in the affirmative separately from those who answer it in the negative (ignore the neutrals).

Exclusion Criteria:

- Statement 47: To be included in analysis must choose option 4 (agree). If not, delete the entire respondent.
- Minimum number of statements answered to be included in the score for each category
  - Overall 45
  - All categories 36
Skip Logic:

- If 36. Or 37. are answered in the affirmative (agree or strongly agree), skip to 43.

Clusters: Does this assessment include clusters of questions by topic?
The PTaP contains Eleven empirical categories (contain 42 of 56 statements)

I. Personal Enjoyment: Items 15, 17, 28, 29, 33, 36, 45
II. As a Career Choice: Items 7, 8, 10, 13, 14, 16, 18, 27, 29
III. Others Support Me Teaching: Items 3, 6, 18, 30, 31, 32
IV. My Department Values and Encourages: Items 1, 2, 3, 4, 5
V. My Department Supports Me Teaching: Items 3, 6, 30, 32
VI. Employee benefits and Stability: Items 24, 25, 26, 50
VII. Teaching is Scientific: Items 8, 9, 13, 14, 27
VIII. Nurturer: Items 17, 36, 44, 45, 48
IX. Back Up Plan: Items 12, 34, 37, 49
X. All Students Can Learn: Items 53, 54, 55
XI. I would if ...: Items 38, 39, 40, 41

Overall: Includes 55 statements 1-42, 44-46, 48-57

All categories: Includes 41 statements: 1-8, 10, 12-18, 24-34, 36-41, 44-45, 48-50, 53-55

Typical Results: What scores are usually achieved?
To identify those who want to teach, those who chose either agree or strongly agree on the statement "I want to become a grade 7–12 teacher" were combined. For those who do not want to teach, students who chose disagree or strongly disagree with this statement were combined. If a student chose neutral, they were not included in this analysis.

All scores are % agreement with what the experts identified as positive and accurate perceptions of the profession.
Interpretation: How do I interpret my students’ scores in light of typical results?

The Get the Facts Out project plots seven of the eleven empirical categories of the PTaP on a radar plot to help departments see how their students perceive support for teaching in their department compared to how students perceive teaching careers. For a list of questions included in each of these categories, see the "Clusters" section below.

Resources

Where can I learn more about this assessment?

Translations: Where can I find translations of this assessment in other languages?
We don't have any translations of this assessment yet.
If you know of a translation that we don't have yet, or if you would like to translate this assessment, please contact us!

Background

Similar Assessments
The PTaP.HE is a sister assessment to the PTaP. Give the PTaP to assess student perceptions about grade 7-12 math and science teaching as a profession. Give the PTaP.HE to assess college/university faculty, staff and advisors' perceptions of grade 7-12 math and science teaching as a profession.

Research: What research has been done to create and validate the assessment?

Research Validation: Silver
This is the second highest level of research validation, corresponding to at least 5 of the validation categories below.

- Based on research into student thinking
- Studied using student interviews
- Studied using expert review
- Studied using appropriate statistical analysis
- Research conducted at multiple institutions
- Peer-reviewed publication

Research Overview
The statements on the PTaP were developed based on expert feedback on topics the developers found valuable. Students were interviewed about the statements, experts gave feedback on the statements, and they were revised. Additional students were interviewed about the revised statements. The PTaP was given to large numbers of students, and an item analysis and factor analysis were completed. Expert responses to the questions were collected, and experts gave feedback on the data and factor naming. The PTaP has been given to over 2000 students at over 40 institutions. The results have been published in one peer-reviewed publication.

Developer: Who developed this assessment?
Wendy K. Adams, Taylor Plantt, Heather Taffe, Monica Plisch

References