TARGETED INSTRUCTIONAL CHANGE

ALICE OLMSTEAD & NATASHA HOLMES

SESSION GOALS

By the end of this session, you will be able to:

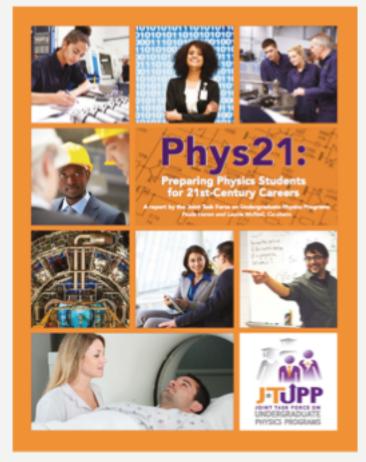
- Describe high-level goals for your physics students.
- Explain how strategies from your past teaching connect to those high-level goals.
- Describe ways strategies from the workshop could be integrated into your teaching to better advance those highlevel goals.
- Provide support to other instructors who are thinking about changing their instruction.

PART 1: IDENTIFYING GOALS

Find your worksheets!

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- What are employers looking for from physics graduates?
- What departments already doing to address those needs?



PART 1 – ON YOUR OWN

- I. Write down ONE goal that is central to your instructional approach, either from the Phys 21 list or a goal of your own design.
- 2. Describe several ways you have targeted this goal in your past instruction.
- 3. What has worked well for you or your students? How do you know (e.g. evidence from your classroom)?
- 4. What has worked less well for you or your students? How do you know?

PART 1 – FORMING GROUPS

What kind of high-level goal did you focus on?

- A. Physics-Specific Knowledge
- B. Scientific and Technical Skills
- C. Communication Skills
- **D.** Professional/Workplace Skills

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Go to a table matching your high-level goal

• Task: share with two neighbors (i.e., groups of 3 - see #5). Be prepared to share what you learned.

DEBRIEF

• What awesome thing did you learn about your neighbor's goals and instruction? What are they doing and why are they doing it?

PART 2 – ON YOUR OWN

- I. Which new strategies from this workshop could you use to target the goal you identified in Part I in your future teaching?
- 2. What challenges do you anticipate encountering when integrating these strategies into your instruction?
- 3. What supports or resources could help you to address those challenges?

PART 2 – SAME GROUPS

• Task: share with the same neighbors (see #4)

DEBRIEF

 What strategies and resources related to this workshop can support you or your colleagues in pursuing specific goals?

RINSE AND REPEAT

• Pick a new goal and complete Parts I & 2 of the worksheet on your own.

RINSE AND REPEAT

What kind of high-level goal did you focus on?

- A. Physics-Specific Knowledge
- B. Scientific and Technical Skills
- C. Communication Skills
- D. Professional/Workplace Skills

Go to a table matching your high-level goal.

• Form a group of 3. Complete the rest of Part I AND all of Part II for your second goal.

DEBRIEF

• Did anything else come up in your conversations that you want to share?

WHAT'S NEXT?

Literally next:

• PhysPort/ComPADRE, Resources and Assessment – Bruce Mason

Tomorrow:

- Discovering the Resources for Solving Problems Ted Hodapp & Andy Rundquist
- What Will I Do When I Get Back to the Office? Robert Hilborn

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Thanks!!!