

Problem

Introductory physics courses at WPI do not utilize differentiated learning styles.

Goal

To assess learning styles in physics classes at WPI and encourage teachers to adapt differentiated instruction.

Method

12. I enjoy:

- Watching movies, looking at photos/art, or people watching
- Listening to music, or talking to friends
- Doing activities, playing sports, building models, or being active

Analyze survey results



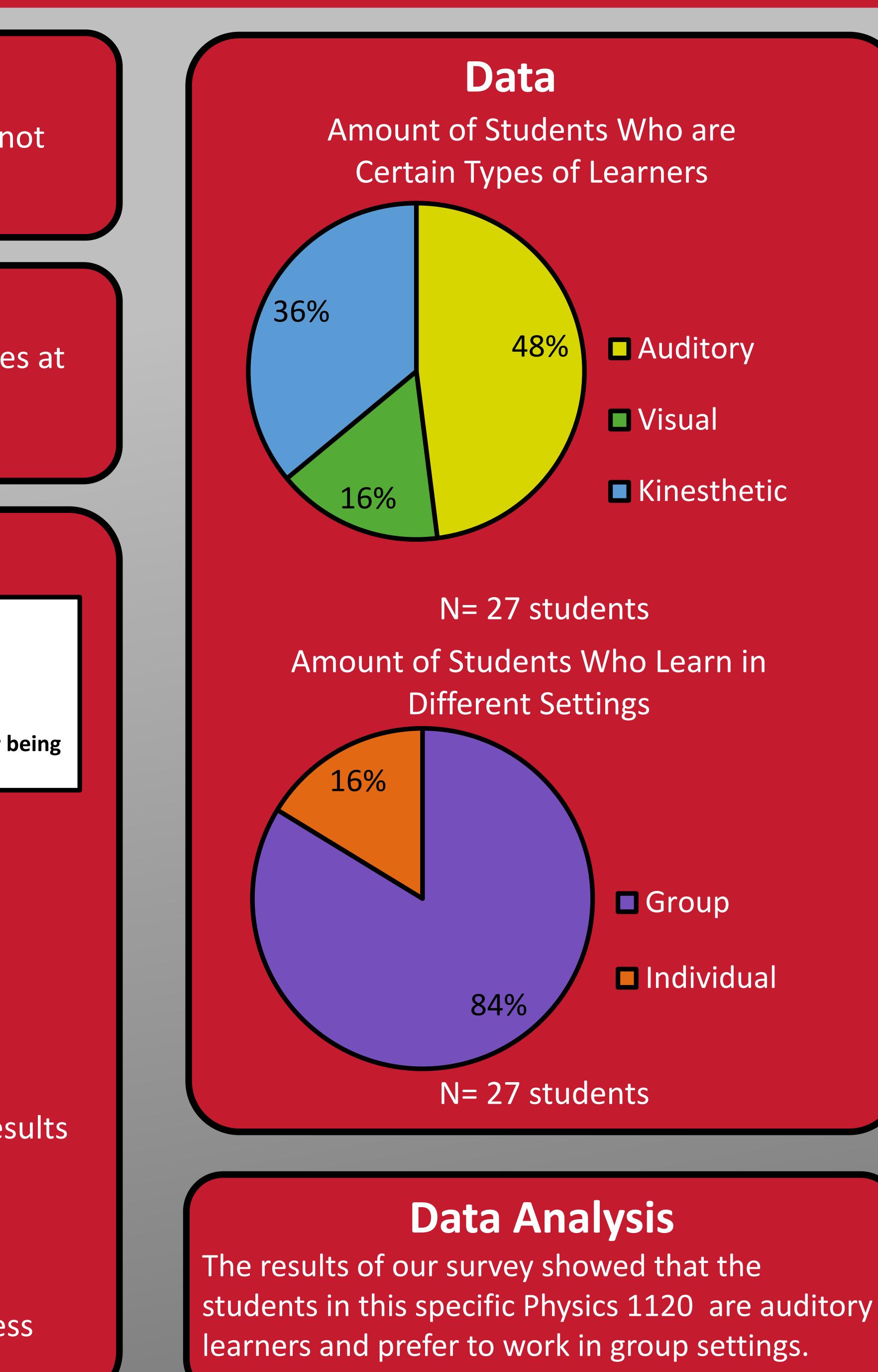
Adapt instruction based on survey results



Post- survey to analyze effectiveness

Adapting Instruction to Learning Styles

Ralph Grzybek (AE), Victoria Nassar (ME), and Alexandra Ward (MGE) Professors: Robert Traver (Social Science), and Paul Kirby (Philosophy) PLA: Lily Randle (BC) GPS: Ignorance is NOT Bliss



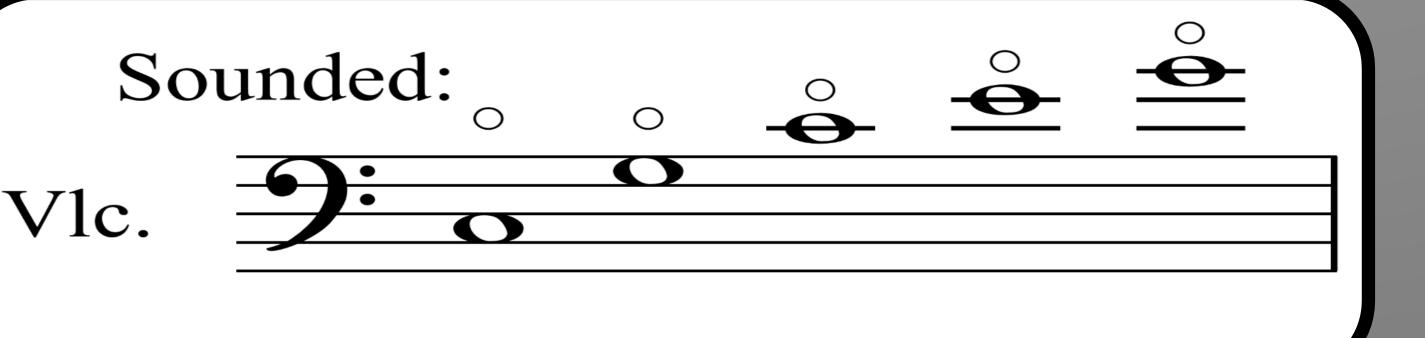
- Auditory
- Visual
- Kinesthetic
- Group
- Individual

- groups.
- If students polled:

 - assignments.

Recommendation

- Survey each conference at the beginning of each term. Establish a common learning style within each specific conference. Implement corresponding instruction.



INSTRUCTION IN ELEMENTARY SCIENCE. Retrieved from Springer Link: http://link.springer.com/article/10.1007/s10763-013-9414-z & Francis, Ltd.

Chamberlin, M. (2010). The promise of differentiated instruction for enhancing the mathematical understandings of college students. In *Teaching Mathematics and Its Applications* (p. 26). Laramie: Oxford University.

Solution

- Conference should be altered by varying speed, volume, and pitch to create aural texture. Class work should be given in

• Visual: There should be more visual aids like pictures or diagrams. • Kinesthetic: There should be more demonstrations and lab based work. • Individual: Give independent

References

Tobin, R. (2013, April 5). POSSIBILITIES AND POTENTIAL BARRIERS: LEARNING TO PLAN FOR DIFFERENTIATED

Sternberg, R. J. (2005). Styles of Thinking as a Basis of Differentiated Instruction. In *Theory Into Practice*. Taylor