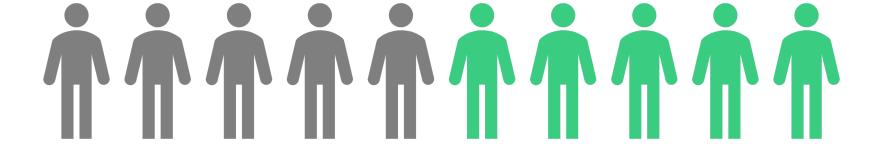
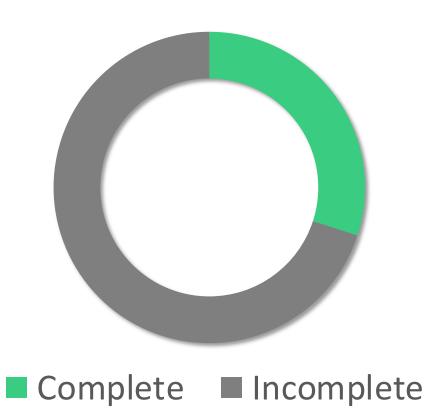


College Educators







On average, only 30% of students complete STEM degrees.

(Eagan et al., 2015)



#1

Poor student performance is the leading predictor of attrition.

(Chen, 2013)

STEM Instructor Accelerator Program

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Educational Best Practices

Learning Sciences, Instructional Design, and more

STEM Instructor Accelerator Program



Educational Best Practices

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Contextualized Practice

Concepts applied to instructors' disciplines.

STEM Instructor Accelerator Program



Educational Best Practices

Learning Sciences, Instructional Design, and more



Contextualized Practice

Concepts applied to instructors' disciplines.



Interaction with Experts

Discuss concepts with peers and instructional designers.



Prior Knowledge



Prior Knowledge

Performance



Prior Knowledge

Instructors take pre-tests, and module content is tailored accordingly.

Performance



Prior Knowledge

Instructors take pre-tests, and module content is tailored accordingly.

Performance

Instructors engage in interactive activities that provide real-time feedback.





Thank you!

References:

Chen, X. (2013). STEM Attrition: College Students' Paths Into and Out of STEM Fields (NCES ß2014-001). National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. Washington, DC.

Eagan, K., Hurtado, S., Figueroa, T., & Hughes, B. (2015). Examining STEM pathways among students who begin college at four-year institutions (Commissioned Paper Prepared for the Committee on Barriers and Opportunities in Completing 2- and 4-Year STEM Degrees). Washington, DC: *National Academy of Sciences*. Retrieved from http://sites.nationalacademies.org/cs/groups/dbassesite/documents/webpage/dbasse_088834.pdf

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