



4 Courses

Introduction to PhET  
Simulations for STEM  
Education

Whole Class with PhET for  
STEM Education

Activity Design with PhET  
Simulations for STEM  
Education

Implementation of PhET  
Activities for STEM  
Education



Oct 15, 2025

**PAPA M SANOGO**

has successfully completed the online, non-credit Specialization

# Active Learning in STEM with PhET Interactive Simulations

Through this experience, you have learned how to engage your students and boost learning in math and science with free virtual labs and simulations from the University of Colorado Boulder's PhET Interactive Simulations project (<https://phet.colorado.edu/en>). In this specialization, you explored active learning strategies that you can incorporate into your classroom. You also learned how to evaluate the effectiveness of a learning experience by implementing a simulation-based lesson plan in one of your classes. Congratulations! This specialization certifies 60 hours of work across 4 courses.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

*Zach Mbasu Rebecca E Vieyra*

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PhET Interactive  
Simulations

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Director of Global  
Initiatives, PhET  
Interactive Simulations

Verify this certificate at:

<https://coursera.org/verify/specialization/OXUC3F05XR7F>