**Chesapeake Section of the
American Association of Physics Teachers
Spring 2021 Virtual Meeting**

Contribution ID: **16**   Type: **Demo**

Physics.land pedagogy and demo

Saturday, April 17, 2021 9:20 AM (20 minutes)

Have you heard students say they understand the physics concepts, but they cannot do the math? Is the TI-calculator still your sidekick in the classrooms?

Imagine an alternative where students breeze through the math and spend more time focusing on the concepts. With the new generations of learners in mind, Physics.land provides a modern tool to perform physics computations, tailored to their learning styles. Once students learn how to dissect a problem, they simply pick the associating module(s) in the tool to instantly obtain accurate numerical results. Students will also see detailed steps and explanations; visual representations of the solutions; sig. figs. and unit conversions done automatically. The main concepts and the big pictures are laid bare in front of them.

In this session, the creator of Physics.land will walk you through the tool. You will understand how users contribute to the training of artificial neural networks (ANN) behind-the-scene to ultimately learn to solve physics problems with AI. You will uncover why and how Physics.land might just be the right model for your generations of STEM learners!

Try out: https://physics.land
More info: https://physicsland.github.io/

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Track Classification: Pedagogy