

## Professional Development for High School Teachers: Enhancing Your Classroom with Computational Thinking

### What Is Computational Thinking?

- Computational thinking is a set of tools or strategies for solving complex problems. It is a high-level thought process that views problem-solving through a computational lens.
- It begins with learning to see opportunities to compute something, and it develops to include such considerations as appropriate ways to represent data, making simplifications and approximations, and computational efficiency.
- It relates to mathematical thinking in its use of abstraction, decomposition, and modeling, but it is directly cognizant of the ability to compute and the benefits of doing so.

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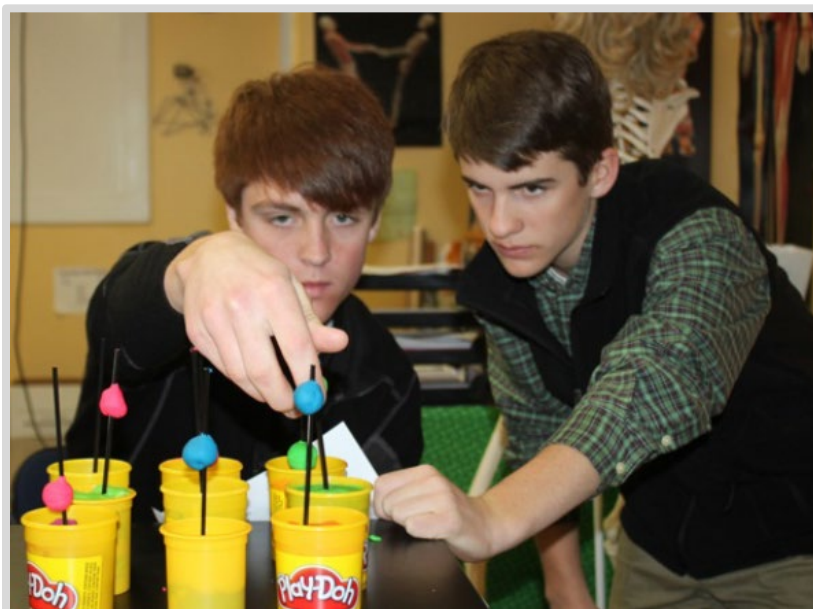
*You are probably already using computational thinking in the courses you teach. This course will help you to recognize it and illuminate it for your students.*

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### What Is This Professional Development Course?

- It is an online course that will introduce you to the basic ideas of computational thinking and help you to integrate it into the classes you teach.
- It is being developed by the DIMACS Center at Rutgers University with support from the National Science Foundation.
- The course begins with an in-person pre-course workshop June 13, 2020, at the Groton School, Groton, MA. The online course immediately follows and runs June 13-July 12, 2020.
- Participating teachers receive a professional development certificate from Rutgers, free admission to the course, and \$1,000.00 for completing the course and implementing some of the activities in their classrooms.



**More Information:** Please contact Jon Choate at [jchoate6678@gmail.com](mailto:jchoate6678@gmail.com) for admission to the course. Please note that attending the pre-course workshop is mandatory. It will provide important information about the course and using the online platform. **For more information or to apply online, visit: <https://CTPOnline.org>**