

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.

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.



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 integrate them 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 pre-course workshops on Zoom, Saturday, October 3, from 10:00 to 1:00 EDT and Sunday, October 4, from 1:00 to 4:00 EDT. The fully online course, immediately follows and runs October 5 – Dec 6, 2020.
- **Participating teachers receive a professional development certificate from Rutgers, free admission to the course, and \$1,000 for completing the course and implementing some of the activities in their classrooms.**

Visit CTPOnline.org for more information and to apply online. For more information, you may also contact Jon Choate jchoate6678@gmail.com or Gary Benson gbenson@bu.edu. Please note that attending the two-day, pre-course Zoom workshop is required. It will provide important information about the course and how to use the online platform.