

**Computer Science Discoveries**  
2019-2020 STEM Scale-Up Program

**Grade Levels:** 6-10, available in school

**Website:** <https://newbo.co/code-org-partnership/>

**Video Link:** <https://youtu.be/2-QpgNHknds>

**Award Provides:**

- Curriculum by Code.org.
- Connections with other Iowa computer science teachers through in-state support network.
- Opportunity to earn licensure renewal or graduate credit through Keystone AEA.
- Ongoing support during implementation from NewBoCo staff, facilitators, and online forums.
- Travel stipend of \$50 per workshop day.
- Per diem stipend of \$60 per workshop day for teachers' time.
- \$100 to cover classroom supplies.
- Full Circuit Playground Classroom Kit for Unit 6.

**Additional Cost(s) to Awardee In 2019-2020:**

- None

**Approximate Sustainability Cost After Award Period:**

- The curriculum is free forever. Estimated classroom supply costs are \$100 per class, with some supplies that can be reused year after year.

**Program Summary:**

Computer Science Discoveries is appropriate for 6 - 10th grade students and can be taught as a semester or year long introductory course (3-5 hours per week of instruction for 9+ weeks). The course takes a wide lens on computer science by covering topics such as programming, physical computing, HTML/CSS, and data. The course inspires students as they build their own websites, apps, games, and physical computing devices.

NewBoCo's year-long Professional Learning Program provides ongoing support for teachers, requiring no prior computer science experience to get started. The curriculum and workshops are also designed to foster equity and diversity in the classroom, breaking down barriers and stereotypes around computer science.

In addition, the curriculum is available online at no cost for anyone, anywhere to teach. For more information about Code.org's goals and approach to their courses, please visit their website for curriculum values and professional learning values.

**Requirements to Implement the Program:**

**Educator(s) must participate in all nine workshop days throughout the year and also submit a Code.org application (in addition to the STEM Scale-Up application) at <https://newbo.co/code-org-partnership/#apply>.**

**A memorandum of understanding signed by the building administrator is required before training or materials can be delivered.**

**Professional Development:**

A five-day summer workshop will be held July 15-19. Location is yet to be finalized. Four, one-day Saturday workshops will be held during the academic year.

**Duration:** 1 week, plus four 1-day Saturday workshops

**Date(s):** July 15-19, 2019

**Location:** Final location TBD, with alternative academic year locations available in Decorah and Dubuque.

**Information Session:**

To learn more about this program and have questions answered, please join a virtual information session on Thursday, January 31<sup>st</sup> at 7:30am via Zoom. You may join via your computer at <https://zoom.us/j/367460226> or call in from your phone at +1 646 558 8656 with the meeting ID: 367 460 226. Contact your STEM Region manager for a link to the recording if you are unable to attend.