Welcome to our Family!

Code.org Professional Development

2015-2016

Computer Science Principles

Code.org
1301 Fifth Avenue
Suite 1225
Seattle, WA 98101

http://code.org/pd
pd@code.org

Dear Educator,

Congratulations! You are now part of Code.org's family of teachers working across the United States to bring computer science courses to our public schools. As the founder of a young and relatively small organization, I've been humbled by the passion of educators such as yourself, taking the first step to bring computer science to your students and to open a world of opportunity for them. We look forward to working with you toward successful completion of our professional development program.

You have registered for the pilot year of Code.org's Computer Science Principles (CSP) curriculum and professional development, modeled on the AP Computer Science Principles Curriculum Framework. The curriculum and professional development focus on introductory, yet rigorous, Computer Science fundamentals. Lessons are designed to engage students with inquiry-based and concept-discovery activities.

It is important that you read and understand the Code.org Welcome Kit contents as it gives key details about our program and policies that you can reference as you go through the roughly 15 months of professional development.

Please browse our website **code.org/educate** and review details specific to your workshop location at **code.org/pd**. If at any point throughout your professional development experience you have a question, please let us know by e-mailing **pd@code.org.**

Sincerely,

Hadi Partovi
Co-founder, CEO
Code.org

Code.org is a 501(c)3 non-profit dedicated to expanding participation in computer science education by making it available in more schools, and increasing participation by women and underrepresented students of color. The Code.org vision is that every student in every school should have the opportunity to learn computer programming.

The Code.org Professional Development philosophy

Who is Code.org's Professional Development (PD) built for?

The Code.org CS Principles (CSP) PD program supports teachers with diverse teaching backgrounds to teach the AP® CSP course. Whether you are new to teaching CS or have other CS teaching experience, this PD program is designed to promote growth in your teaching practice, providing space for you to become comfortable with the curricular materials and pedagogy.

Program features:

- **One cohesive set of resources:** Code.org provides PD and curriculum that flow seamlessly together, empowering teachers to deliver the course with confidence. Since the PD program lives both in-person and online, the program supports participants throughout their first year of teaching CSP with PD that is "job-embedded."
- **Teaching and learning in context:** Our PD model enables participants to engage with the curriculum both as teachers and as learners. Through experiencing curriculum content as an active learner, participants gain important insight into the experiences their students will have during the academic year. Additionally, by interacting with curriculum content as instructors, participants gain essential experience planning and delivering lessons.
- **A collaborative, participant-centric approach:** Workshops and activities encourage participants and facilitators to share their expertise from the field and collaborate on strategies to bring to CSP. Our PD program provides an opportunity to learn from everyone in the room. Facilitators model behavior and pedagogical approaches, and participants share their own approaches by planning and delivering lessons. Rather than framing facilitators as gurus, these workshop leaders guide participants through the course preparation process.

For a full rundown of the Code.org PD philosophy, visit **code.org/educate/professional-development-philosophy**.

Program commitments

Phase 1: Online Introduction	**Phase 2:** Blended Summer Study	**Phase 3:** Blended Academic Year Development	**Phase 4:** Summer Wrap-up
• 2 hours online, self-paced	• 5 days (30 hours) in person • 8 hours online, self-paced	• 4 days (24 hours) in person, meeting one day per quarter • 12 hours online, self-paced	• 3 days (18 hours) in person

Program commitments: Timeline

	Phase 1: Online Intro	Phase 2: Blended Summer Study	Phase 3: Academic Year Development	Phase 4: Summer Wrap-up
May 2015 → August 2016				
In-person PD	None	5 days	4 Saturdays	3 days
Online PD	2 hours	8 hours	12 hours	None

For your region's workshop dates, please visit **Code.org/pd**.

Overview of PD phases

The Code.org CSP professional development is broken into four phases. These phases are designed to support teachers throughout their first year of teaching CSP.

Phase 1: Online Introduction

Overview: The first phase of professional development is a two-hour online introduction that focuses on providing a foundational knowledge of the Code.org program and CSP course resources. It creates a space for participants to become familiar with the curriculum, the platform, and the tools that will be used in the course.

Takeaways:

- I have created my **teacher account**.
- I know about **Code.org's CSP course**.
- I am **familiar with the Code.org tools**.
- I am **excited** to go to Phase 2!

Phase 2: Blended summer study

Overview: The second phase of professional development is a blended in-person and follow-up online experience.

- **In-person workshop:** This 5-day workshop is the primary opportunity for development prior to the first year of instruction. Participants will explore curriculum, tools, classroom management, and teaching strategies. You will dive into the College Board requirements that come with an AP course and build a local community of teachers who are using this curriculum. Spending practical time working with the curriculum, you will develop an understanding of how to effectively use the materials and pedagogical strategies that are part of any strong computer science classroom.

- **Online follow-up:** This 8-hour online experience provides space to plan the beginning of the academic year. Teachers will dive deeper into the curriculum, interacting with tools and widgets that students will use in the class. Additionally, the online work includes collaborating with other teachers in a professional online learning community— an important teacher tool during the first-year of teaching this course.

Takeaways:

- I know how to use the provided online **tools, resources, and supports** I need to teach this class.
- I have thought about and discussed **how the Code.org materials will work in the classroom** and am ready for the first week.
- I am part of a **professional learning community** of teachers.
- I **understand the educational philosophy** behind the tools and curriculum, and I'm confident I can teach this course.
- I am learning how to teach CS in a way that **broadens participation**.
- I have thought about and discussed the **things to look out for** in the CS classroom (equity issues, etc).
- I understand the **AP pieces of the course** and feel that I will be able to help my students with them.

Phase 3: Academic year development

Overview: The third phase of professional development is composed of blended ongoing quarterly in-person meetings and online activities.

- **In-person workshops:** These quarterly meetings will continue to build pedagogical strategies and explore the essential elements of this course. You will participate in activities such as using the AP performance tasks in your course, teaching new content, and keeping the classroom environment equitable and engaging for all students.
- **Online activities:** These online activities are focused on building the online professional learning community. They provide continued support with tools, content, and helpful resources allowing further exploration of the curriculum.

Takeaways:

- My **professional learning community** is a good place for me to turn for support, both in and out of PD.
- I have a better idea of the curriculum, because I've had a chance to **explore it more deeply** in person with my professional learning community.
- I have even more ideas about leading an **engaging and equitable** CSP classroom.
- I have ideas for **recruiting diverse students** for next year.

Phase 4: Summer wrap-up

Overview: The fourth phase of professional development is an in-person workshop focused on diving deeper into content and material that was difficult to teach the first time and empowering teachers to take ownership of the curriculum by making adjustments and changes in order to meet their students' needs. The fourth phase addresses curricular materials with an eye for teaching and learning in context. Teachers will reflect on what success looks like in an AP course and how to recruit diverse groups of students.

Takeaways:

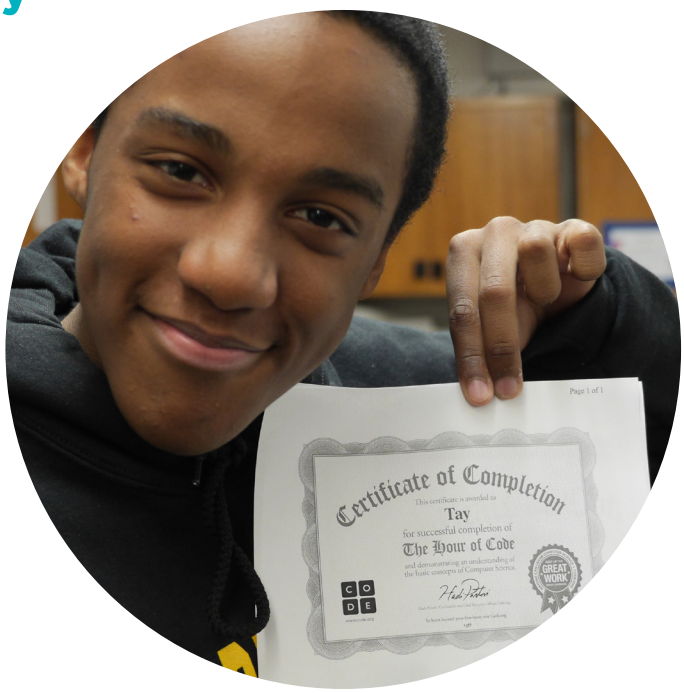
- I **look forward to teaching** the course again based on my reflection of the past year.
- I am confident in supporting my students through all of the **AP assessments**.
- I am more comfortable with the **material that I struggled with** the first time teaching this course.
- I understand **how to make changes** to the Code.org curriculum in order to meet my students' needs and fit into my local context.

CSP curriculum

Code.org's CS Principles course is designed to be a full-year, rigorous, but entry-level course for high school students. The curriculum is also written to support teachers new to the discipline with inquiry-based activities, videos, assessment support, and computing tools that have built-in tutorials and student pacing guides. It becomes an official AP® course in the 2016-17 school year.

Visit **code.org/csp-curriculum-overview** for the CSP Curriculum Overview

Code.org attendance policy



Selected teachers must be teaching the course in the Fall and be able to attend all days of professional development (15 months). The teachers must commit to attending all days of professional development (PD) when joining a Code.org cohort.

1. Teachers will only receive stipends for the hours that they attend the professional development.
2. Arriving/leaving over 30 minutes late/early will count as a full day absence if not approved by Code.org prior to the workshop.
3. Teacher must complete Phase 1 PD prior to the start of Phase 2 PD to continue to be part of the program and will not receive his/her Phase 2 PD stipend until Phase 1 PD is completed.
4. Teacher must attend the full 5 days of Phase 2 PD to continue to be part of the program.
5. Teacher must be teaching computer science to a minimum of 1 section of students when the school year begins to continue to receive their stipend.
6. Teacher must attend all 4 days of Saturday in-person workshops (these happen during the academic year) and all 3 days of Phase 4 PD.

If you have a schedule conflict e-mail pd@code.org and notify your district contact as soon as possible.

Exceptions to this policy include districts where Saturday workshop participation is voluntary per union regulations.

Communications

Who will PD e-mails come from?

You can expect e-mails from **pd@code.org** providing workshop and online activity information, surveys to help us improve PD as well as monthly newsletters.

Who do I contact with questions?

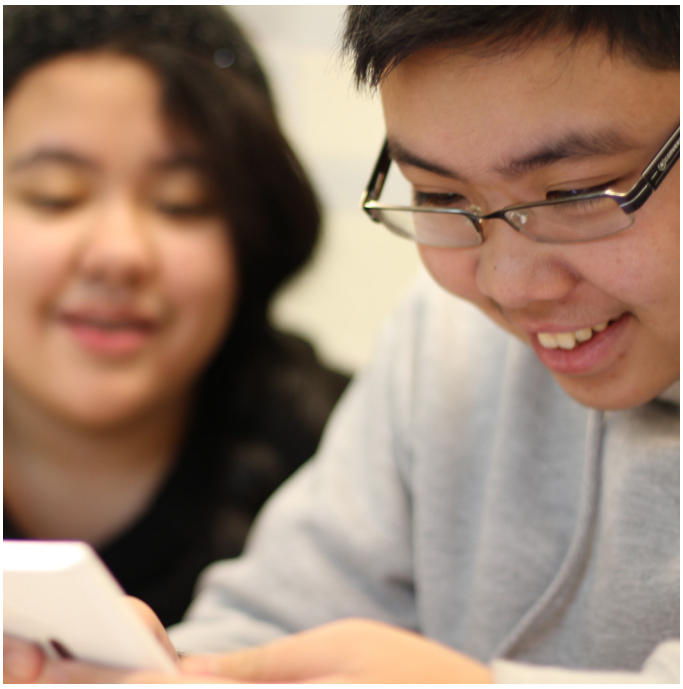
For any questions please contact pd@code.org. You can expect a response within 48 hours during our business hours (Monday-Friday 9am - 5pm PST).

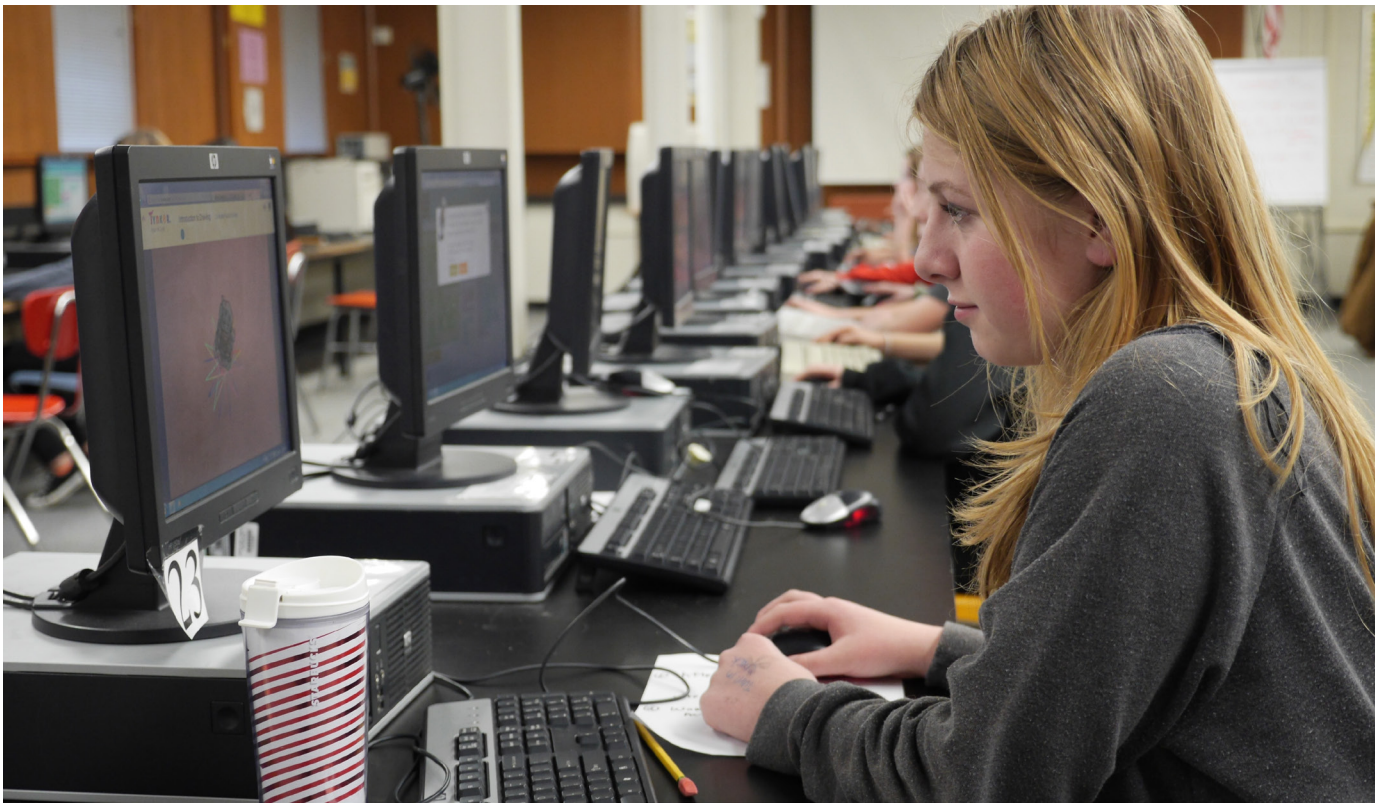
Frequently asked questions

Will Code.org reimburse me for parking fees?	No, Code.org does not cover parking expenses and encourages participants to use public transit options in their city.
What if I am no longer teaching the course in the Fall, can I still attend PD?	Our general rule is you will not go through PD with a stipend unless you are teaching, but please contact your district to discuss further.
What are the technical requirements to teach the class?	Computer lab with 1:1 computers setup in such a way that group work is possible OR an additional non computer classroom that the teacher can use for group work. We support the following combinations of operating systems and browsers: Chrome 33.x and higher - XP & Windows 7 and higher - Mac OS 10.6 and higher - Android 4.1.2 and higher Safari 7.0.x and higher - Mac OS 10.6 and higher - iOS 7.x and higher Internet Explorer 9, 10, 11 - Windows 7 and higher - Mac OS 10.6 and higher Firefox 25.x and higher - Windows 7 and higher
Can we call CSP an AP Class in the 2015-2016 school year?	This year is a pilot year for the AP CSP course and no AP exam will be offered to students. Therefore, the words AP should not be included in the name or description in the 2015-16 school year.

Helpful links

- Code.org's Computer Science Principles Homepage: **code.org/educate/csp**
- Professional Development Philosophy: **code.org/educate/professional-development-philosophy**
- Curriculum Overview: **code.org/csp-curriculum-overview**





Do you know a K-5 teacher?

Invite them to attend Code.org's free Professional Development for elementary school teachers!

For details, visit **Code.org/k5** or send them this **one-pager.**

Thousands of teachers have participated. They rate our workshops 4.8 on a 5 point scale. The majority say, "It's the best professional development I've ever attended."

"I can't think of anything that would improve this workshop. The workshop facilitator was very professional. This is by far the BEST workshop I've ever attended!"

"This will totally change my curriculum. I love how the lessons are prepared and aligned to the Common Core and Next Generation Science Standards."