Taking Action On

Searching for Computer Science:
Access and Barriers in U.S. K-12 Education

#1 Broaden access to computer technology through a variety of paths in and out of school, via various technologies

> Access free learning materials, no experience needed: cs-first.com, pencilcode.net
> Integrate CS concepts across subjects: g.co/exploringCT
> Use mobile friendly platforms such as: appinventor.mit.edu/explore/teach.html

#2 Make CS accessible and engaging for all students, teachers, and subjects

> Make CS learning accessible to all: ncwit.org/top10engagestudents
> Offer equity-based CS: exploringcs.org
> Learn more about how teachers of all subjects can integrate CS: g.co/exploringCT
> Explore ways to learn CS without technology: csunplugged.org
> Share role models in CS and get started with simple CS exercises: madewithcode.com

#3 Provide teachers with resources for learning about and teaching CS

> Find teacher professional development and apply for funding for PD: cs4hs.com
> Learn how to integrate CS across subjects: g.co/exploringCT
> Teach CS with free learning materials, no experience needed: cs-first.com, pencilcode.net
> Train teachers to teach CS: code.org/educate, exploringcs.org
> Spread awareness of the new introductory option for AP: apcsprinciples.org

#4 Advocate within the school community for CS, so administrators are made aware and can prioritize

> Advocate for CS in schools: code.org/help, csta.acm.org/Advocacy_Outreach/sub/Advocacy_Toolkit_Final_.pdf
> Work with your PTA and other parent groups: pta.org
> Educate on the value and future of CS: acm.org/public-policy/Case_For_Computing_final.pdf
> Support your advocacy with data: csta.acm.org/Research/sub/KeyResearch.html, code.org/promote

#5 Educate policymakers about the importance of CS and ask for support for CS in schools

> Inform your legislators and gain support for CS in your state: code.org/promote
> Educate on the value and future of CS: csta.acm.org/Advocacy_Outreach/sub/AdvocacyTools.html, acm.org/public-policy/Case_For_Computing_final.pdf

#6 Collaborate locally and statewide to provide infrastructure to sustain CS learning for all students

Data
> Educate on the value and future of CS: acm.org/public-policy/Case_For_Computing_final.pdf
> Advocate for resources and policy support with data: csta.acm.org/Research/sub/KeyResearch.html, code.org/promote

Access
> Make CS learning accessible to all: ncwit.org/top10engagestudents

Long-term quality
> Access free learning materials, no experience needed: cs-first.com, pencilcode.net
> Empower teachers to improve their own courses: csta.acm.org/Curriculum/sub/ACMK12CSModel.html, csta.acm.org/Curriculum/sub/CurrFiles/CSTA_K-12_CSS.pdf
> Join communities and conferences: csta.acm.org, (CS First) http://goo.gl/ybYSU0, sigcse.org

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