What is COMPUTER SCIENCE and why access is important?

Computer science involves the study of computers and computing applications, how they are designed, and how they impact society.

Learning to create and adapt new technologies is different from computer literacy or edtech, which focuses more on using existing technologies (e.g., word processing, spreadsheets or teaching tools).

Why all kids should have access to CS in K-12

To develop foundational skills: critical thinking, collaboration, problem solving and logical reasoning

Girls represent half of all CA students but are just 22% of AP CS test takers

Underrepresentation in CS
California AP CS A Exam Participation (2012-13)

<table>
<thead>
<tr>
<th>Under-Represented Minority</th>
<th>% of HS Students</th>
<th>% of AP CS Test Takers</th>
<th>AP CS Pass Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>49%</td>
<td>22%</td>
<td>72%</td>
</tr>
<tr>
<td>African American</td>
<td>6.7%</td>
<td>1.5%</td>
<td>57%</td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>51%</td>
<td>7.9%</td>
<td>47%</td>
</tr>
</tbody>
</table>

Average pass rate for all students taking AP CS: 76%

Source: CSU Datapoints and The College Board

Computers Science Prepares Students for:

2 College
3 Careers
3 Civic Participation

Computing is in all disciplines: arts, finance, auto, entertainment, agriculture, health, journalism, manufacturing, security
Computing jobs are among the fastest growing and highest paying
Innovation with technology can make a positive difference in a global society

To learn more about computer science education equity in California, visit the Alliance for California Computing Education for Students and Schools and subscribe: www.access-ca.org
or email Julie Papan, Executive Director
juliepapan@ucdavis.edu