

# Visions of Computer Science Education:

Broadening Participation in Computing in your  
Classroom/District

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# Visions of CS Education

*“Educational plans and projects must have a philosophy... otherwise they are at the mercy of every intellectual breeze that happens to blow.”*

*- John Dewey, 1938*



# What do Principals Value?

Building basic literacy skills (reading, math, writing, speaking)	75.2	14.4
Encouraging academic excellence	64.4	23.7
Preparing students for postsecondary education	27.8	53.4
Promoting occupational or vocational skills	10.2	55
Promoting good work habits and self-discipline	53.5	28.1
Promoting personal growth (self-esteem, self-knowledge, etc.)	60.3	21.5
Promoting human relations skills	62.3	21.7
Promoting specific moral values	52.7	22.2

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# Education for What?



Complete the following sentence:

Education is important for students in my state because...

(2 min)



# CS Education for What?



Complete the following sentence:

CS Education is important for students in my state  
because...

(2 min)



***Economic  
& Workforce  
Development***

***Citizenship  
& Civic  
Engagement***

***Competencies  
& Literacies***

**CS Ed Impact Areas**

***Technological,  
Social, &  
Scientific  
Innovation***

***Equity &  
Social  
Justice***

***School  
Reform &  
Improvement***

***Personal  
Agency, Joy  
& Fulfillment***



***Economic  
& Workforce  
Development***

“We should teach CS because...  
...we need to promote a more diverse tech workforce.”

***Equity &  
Social  
Justice***



*Citizenship  
& Civic  
Engagement*

“We should teach CS because...  
It will allow youth to solve problems in their communities  
through technology.”

*Technological,  
Social, &  
Scientific  
Innovation*

*Equity &  
Social  
Justice*

# CS for What?



You have a sheet with 14 statements - Choose your top 3!  
(2 min)



# CS for What?



Form a group with at least 4 people around you.

Make a mark on the back aligned with each of your choices to “heatmap”.

Share with LA for macro-map  
(2 min)



# CS for What?



Finish the sentence:

We believe in CS education because...



# Linking Values & Rationales to Implementation

<b>Rationale/Value</b>	<b>Implementation Implication</b>
<i>We should teach CS because...</i>	<i>As a result, our CSforAll implementation might look different in these ways...</i>
...there are major disparities in women in STEM fields and universal CSed is part of addressing that.	At the level of <b>course requirements and credits...</b> ...we might consider not making CS courses optional.  At the level of <b>instruction...</b> ...we should find or develop curricula relevant to identities of women and girls.  At the level of <b>extracurriculars...</b> ...we should explore models of women/girls focused CS extracurriculars.

# Linking Values & Rationales to Implementation

<b>Rationale/Value</b>	<b>Implementation Implication</b>
<p><i>We should teach CS because...</i></p> <p>...the process of tinkering and making can lead to wonder, discovery and enjoyment.</p>	<p><i>As a result, our CSforAll implementation might look different in these ways...</i></p> <p>At the level of <b>instruction</b>... ...our curricula should include open-ended projects or activities that emphasize more playful approaches.</p>

# Linking Values & Rationales to Implementation

<b>Rationale/Value</b>	<b>Implementation Implication</b>
<p><i>We should teach CS because...</i></p> <p>...value systems are embedded in our technologies, and youth need to be able to see that.</p>	<p><i>As a result, our CSforAll implementation might look different in these ways...</i></p> <p>At the level of <b>learning goals...</b></p> <p>...we should goals around knowing how to ask questions about the purposes and values associated with existing technologies.</p>



# CS for What?



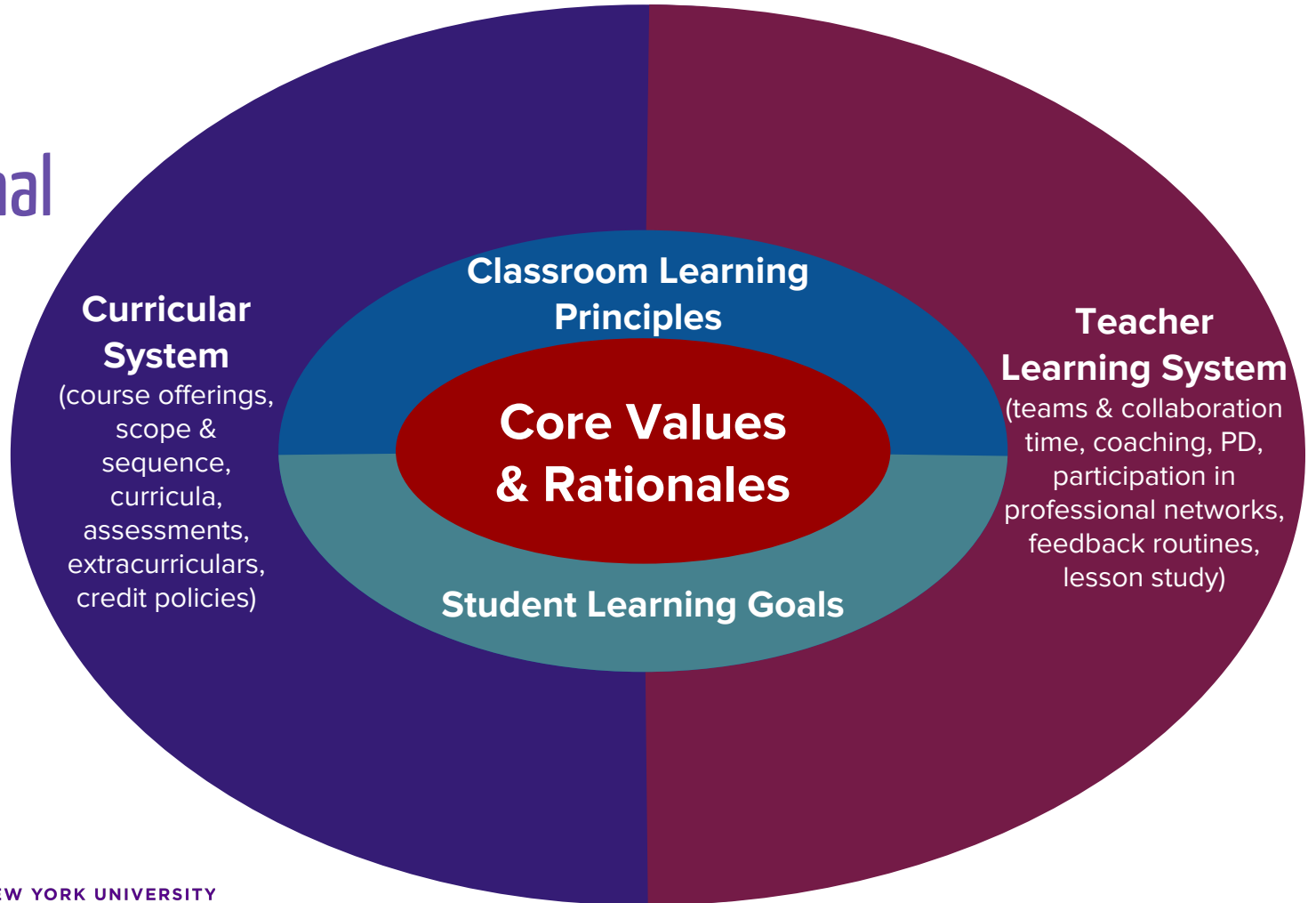
Next Steps: (choose one)

What does your statement mean for?

- Classroom Instruction
  - Learning Goals
  - Courses and Credits
- Community Partnerships
  - Informal Education



# Coherent Instructional System

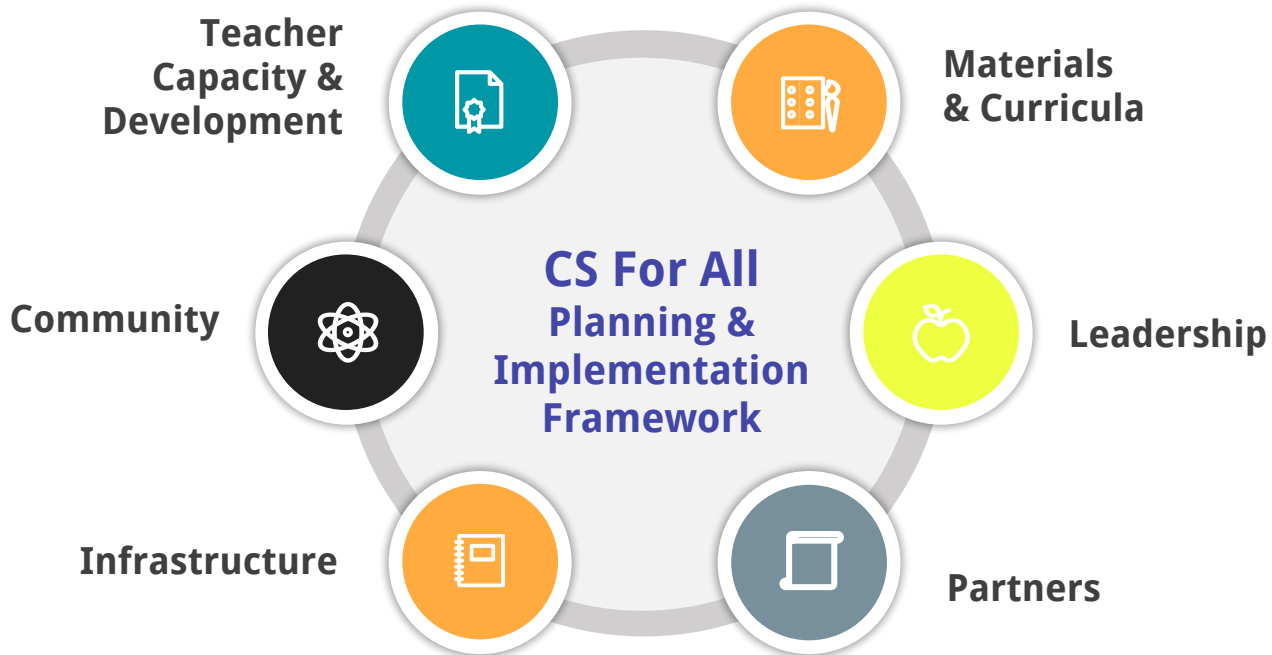


# SCRIPT

School CSforALL Resource and Implementation Planning Tool



# SCRIPT



# What's Next?

**Stay Involved!** Join the Consortium. Sign up for our newsletter.

**Keep in Touch!** Join Community Calls or other events.

**Feel Supported!** Sign up for Office Hours.

Reach out at [info@csforall.org](mailto:info@csforall.org)!

For more information, go to [www.csforall.org](http://www.csforall.org)



Thank you!

