

# Computer Science Colorado Learning and Identity Collaborative (CS-CLIC): Theory of Change

**Vision:** Students, and particularly historically underrepresented students, will perceive rigorous computer science coursework as important, possible, and relevant.



## Context

### Why is this necessary?



Structural and procedural barriers to AP Computer Science Principles enrollment



Gaps for underrepresented student groups (enrollment and achievement)



Perception gaps in beliefs about future selves



## Change Levers

### What is our approach?



Build understanding of the current context



Question rationalizations of the status quo, including the role of existing systems, process, and biases



Utilize instructional approaches that increase student belongingness (e.g., relevant and engaging activities)



Students critically examine role of computing in society



## Educational Model

### How will we get there?

#### Classroom Instruction



- Metacognition
- Differentiation
- Reciprocal teaching
- Project-based learning

#### Professional Learning



- Networked improvement communities for collaboration
- Classroom observations
- Equity

#### Systems/ Processes



- Root cause analysis
- Removal of barriers
- Youth partnership
- Continuous improvement cycles
- K-12 STEM pathway



## Outcomes

### What will success look like?



Equitable access



Equitable enrollment



Equitable success