Why Formative Assessment Literacy for K-12 CS Teachers?

- Measuring student learning formatively and acting on feedback is a fundamental practice for teachers with significant impact on students’ learning.
- Teachers need feedback about student learning and adjust instruction in order to ensure that all students learn.
- Key gap in CS teacher preparation is related to formative learning.

Key Pillar of Framework for Formative Assessment in K-12 CS

- Formative assessment literacy (Professional learning of formative classroom assessment practices)

Formative Classroom Assessment for Teachers (FCAT)

Assessment FOR
- Speeding
- Granular
- Provides feedback
- Accessible
- Aligned to learning goal

Session 1

- Conditions must be present for a statement to be true or false (e.g., if the students know that the function is called).
- A condition is a statement that can be interpreted as a logical expression evaluated to true or false.
- There must be feedback to the board or solve problems.
- The board is all that was executed, what is the value of variable?

Session 2

- Types of Quick Quiz Items → Write
  - Multiple choice
  - Multiple response
  - Short answer
  - Fill in the blank
  - Essay
  - Matching

Session 3

- Variations
  - A variable is a symbol for a quantity that can take on different values.
  - A variable can have multiple values at once and a value is not a fixed entity in the program.
  - A variable is a unique entity.

A Formative Assessment Literacy Module for K-12 Computer Science Teachers: Need, Design, and Teacher Feedback

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