

WestEd

**Technology Supports for
Formative Assessment**

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Technology Affordances

- Alignment database entry and linking
- Collections
- Delivery of instructional and testing software
- Recording/Archiving
- Scoring
- Feedback
- Hints/coaching
- Analysis
- Communication

Collections

- Learning progressions
- Task and item banks
- Rubrics
- Worked examples
- Guidelines for question, task, item development
- Guidelines for scaffolding/coaching, hints
- Guidelines for self-assessment/reflection activities

Recording/Archiving

Customized observation records

Computer files

Electronic portfolios/notebooks

Grade maps

Communication

- Teacher learning community web sites
- Student peer sharing/feedback
- One way, asynchronous posting
- Synchronous discussions
- Rater training and scoring (teachers, students)

Scoring

- Automated
 - Hot spot, selected response
 - Matching patterns
 - Essays, constructed responses
- Display exemplars
- Rubrics

Feedback

- Canned
- Contingent

Analysis

- Quantitative scores
- Qualitative continua

Hints/coaching

- Canned, by content, skill
- Contingent on score

Vignettes of Technology Supports for Formative Assessment

Middle School Science-Ecosystems

By phases in the formative assessment process

- Planning
- Implementing
- Self-assessment/Reflection
- Adjusting/Revising

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- Vignette #1-Planning
- Teachers log on to ***collection of learning progressions***
- Teachers post on district ***learning community web site***

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Vignette #2-Implementing Formative Assessment

- Handheld
 - observation record by class roster
- Simulation
 - records student responses
 - immediate individualized feedback
 - customized coaching

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Vignette #3-Providing Opportunities for Reflection & Self-Assessment

- Simulation
 - records student responses
 - immediate individualized feedback
 - Student version of rubric and sample student responses
 - customized coaching
 - Records confidence ratings
 - Class-level report

Vignettes of Technology Supports for Formative Assessment Middle School Science-Ecosystems

Vignette #3-Providing Opportunities for Reflection & Self-Assessment Cont'd)

- Learning Community web site
 - Teachers share scoring
 - Teachers share adjustments to assessment strategies and instruction