Formative Assessment

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Objectives

By the end of this presentation, you will be able to:

- Identify purposes and uses for formative assessment;
- Understand how formative and summative assessment can work together;
- ▶ Consider ways to make formative assessment systematic and integrated with instruction.

K-W-L

With a partner discuss...

- What you already KNOW about assessment.
- What you WANT to learn about assessment.

Types of Assessments

Summative

Measure and document the extent to which students have achieved a learning target

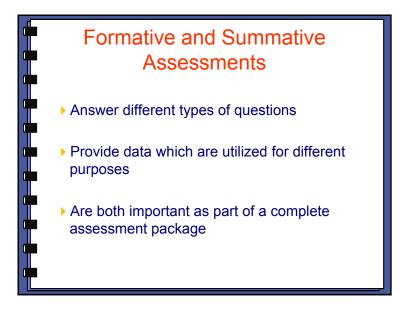
Formative

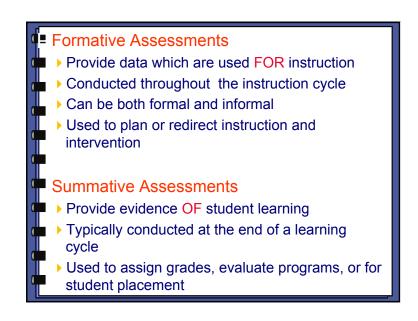
Inform instruction and provide feedback to students on their learning

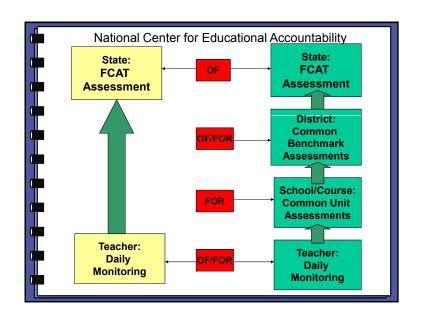
Diagnostic

- Identify underlying reasons for learning difficulties
- Become formative when data is used to inform instruction









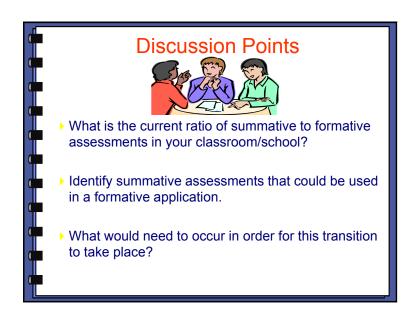
Formative assessment is defined by use, not the assessment method

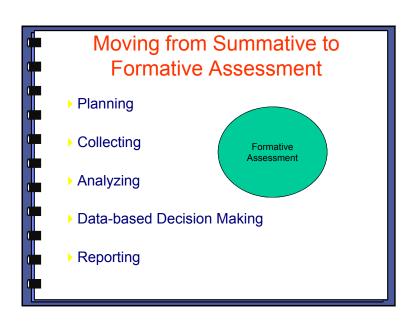
Assessments are only formative if the data is used to inform and redirect instruction

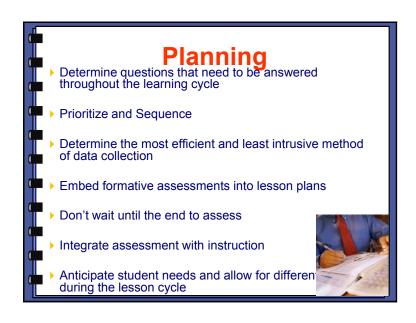
Even traditionally regarded summative assessments can be used

in a formative application

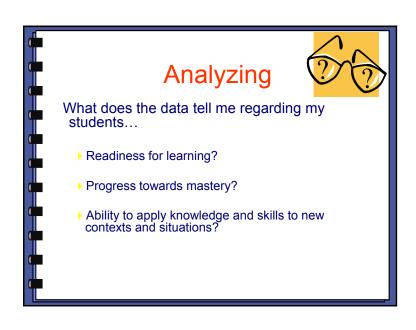
Formative assessment is essential to ALL steps of the problem solving process • Problem Identification - What is the difference between what students know, understand, and can do and expected levels? • Problem Analysis - Why is there a difference between current levels and expected levels? • Instruction/Intervention Design and Implementation - What will I do to address the underlying reasons for this discrepancy? • Response to Intervention - How did it work?

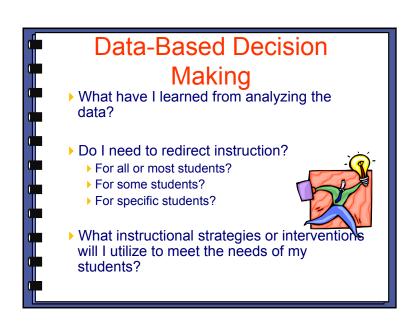


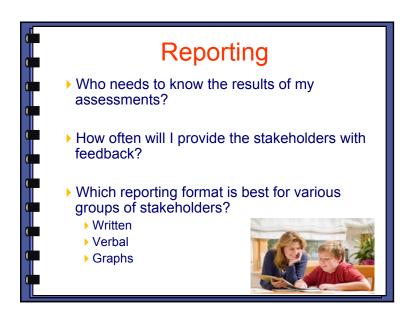


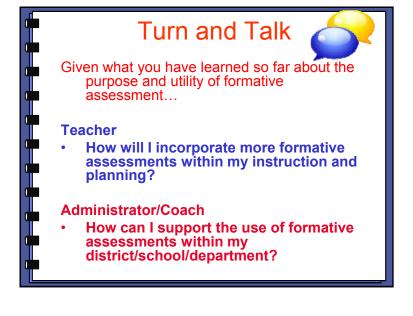












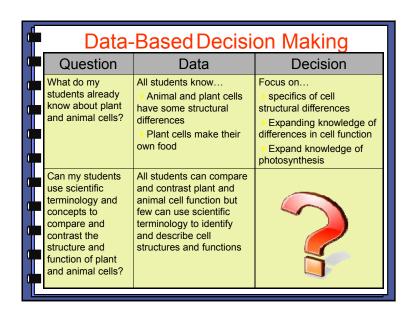
Instruction and Learning Cycle
 Student Misconceptions Engagement and Readiness Eliciting Prior Knowledge Exploration and Discovery Concept and Skill Development Concept and Skill Transfer Reflection and Self Assessment Page Keeley

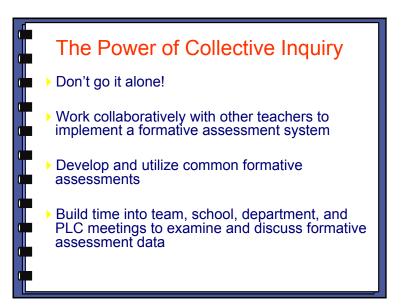
Guiding Questions	Science Examples	
What are my students misconceptions?	Do my students believe that animal and plant cells are the same in terms of structure and function?	
What are my students' interest and level of preparation?	What do my students already know about plant and animal cells? Are my students interested in learning about cell structure and function?	
Are my students developing an understanding of key terminology and concepts through the exploration and discovery activities?	Are my students beginning to challenge their own or others' misconceptions regarding the structure and function of plant and animal cells?	
Do my students understand key scientific terminology and concepts?	Can my students use scientific terminology and concepts to compare and contrast the structure and function of plant and animal cells?	
Can my students apply ideas and skills in new contexts and situations?	Can my students apply the functions of cell organelles to human body parts?	
Can my students reflect upon and assess their own understanding of the key scientific terminology and concepts	Can my students articulate how their understanding of cell structure and functions has developed utilizing specific examples and key terminology and concepts?	

Science Example Questions	Formative Assessment Options
Do my students believe that animal and plant cells are the same in terms of structure and function?	Four Corners Fist of Five
What do my students already know about plant and animal cells?	FIRST WORD-LAST WORD Acrostic KWL
Are my students beginning to challenge their own or others' misconceptions regarding the structure and function of plant and animal cells?	Think-Pair-Share Thinking Log Scientists Ideas Comparison
Can my students use scientific terminology and concepts to compare and contrast the structure and function of plant and animal cells?	VENN Diagram T-Chart Graphic Organizer
Can my students apply the functions of cell organelles to human body parts?	Two Thirds Testing Synectics
Can my students articulate how their understanding of cell structure and functions has developed utilizing specific examples and key terminology and concepts?	FIRST WORD-LAST WORD Acrostic Three Minute Pause KWL

0	٠	Reporting						
0		Question	Data	Who Needs to Know? Why?				
		What do my students already know about plant and animal cells?	All students know • Animal and plant cells have some structural differences	Students: Validate prior knowledge, develop curiosity, motivate				
0			Plant cells make their own food	Teacher: Determine instructional focus and concepts to emphasize				
,		Can my students use scientific	All students can compare and contrast plant and					
		terminology and concepts to compare and contrast the	animal cell function, but few can use scientific terminology to identify and describe cell					
Т	Γ	structure and function of plant	structures and functions					

and animal cells?





Guiding Questions for Professional Learning Communities

What percent of our students have mastered the benchmark?

Does our students' data indicate that some instructional approaches may be more effective than others?

What common errors did our students make?

What will we do for students who have not mastered the benchmark?

How will assess if students have mastered the benchmark following re-teaching?

