Using a Holistic Rubric

Purpose:

Participants will learn to use a holistic rubric to score samples of student work. They will compare and contrast the analytic rubric with the holistic rubric and discuss the advantages and disadvantages of each.

Overview:

Participants will compare and contrast the analytic rubric used in the activity *Using an Analytic Rubric* with the activity sheet *Holistic Rubric*, *Problem Solving*. They will identify the similarities and differences between these two rubrics. Then they will use the holistic rubric to individually score student work samples D, E, F, and G with a single score of 4, 3, 2, or 1 based on the given criteria. Small group discussions will follow to reach consensus on scoring. A whole group discussion will focus on analytic vs. holistic scoring.

TEXES Mathematics 4-8 Competencies. The beginning teacher:

- VI.019.A Demonstrates an understanding of the purpose, characteristics, and uses of various assessments in mathematics, including formative and summative assessments.
- VI.019.C Demonstrates an understanding of how to develop a variety of assessments and scoring procedures consisting of worthwhile tasks that assess mathematical understanding, common misconceptions, and error patterns.
- VI.019.E Understands the relationship between assessment and instruction and knows how to evaluate assessment results to design, monitor, and modify instruction to improve mathematical learning for all students including English Language Learners

Materials.

- Highlighters
- · Paper for recording

Terms.

Analytic rubric, assessment, holistic rubric, scaled score, single score

Transparencies.

- Holistic Rubric, Problem Solving
- Analytic vs. Holistic Scoring
- Which One Should I Use?
- Rubric Scoring Process

Activity Sheet(s).

- Holistic Rubric, Problem Solving
- Analytic Rubric, Problem Solving
- Student Work Samples D, E, F, and G

References:

TEXTEAMS Practiced-Based Professional Development: Middle School Assessments (2003).
Austin, TX: The Charles A. Dana Center.
http://www.cloudnet.com/~edrbsass/edmath.htm

Procedure:

Pro	Procedure:			
	Steps	Questions/Math Notes		
1.	Show Transparency Holistic Rubric, Problem Solving on the overhead. Have participants use Activity Sheets Holistic Rubric and Analytic Rubric to compare and contrast noting the similarities and differences	Ask questions that require participants to reflect on their understanding of the analytic and holistic rubrics and how these rubrics can be used for assessment. How are the analytic and holistic rubrics the		
	between them. They should note that a single score is used to assess the overall quality of an assessment task.	same? How are they different? How does the holistic rubric compare with the		
	Have participants reflect upon the solution guide and the four stages of the problemsolving model and make connections among them.	solution guide used previously? How does the holistic rubric address the stages of the problem-solving model?		
	them.	What can you learn about a student's thinking in mathematics using the holistic rubric?		
2.	Discuss the structure of the holistic rubric and how to use it to assign a single score to an assessment task.	What must a student's work reflect in order to score a "4"?		
	Ask them to reflect upon how other disciplines use holistic scoring. Have them brainstorm about situations in mathematics where holistic scoring is used.	How is holistic scoring used in other disciplines? How is holistic scoring used in mathematics assessment?		
3.	Put the Transparency Rubric Scoring Process on the overhead and discuss each bullet. Explain to participants that they will be following a process similar to the one they used with the analytic rubric.	How is this process like the one used with the analytic rubric? How is it different?		
4.	Refer participants to the Activity Sheet <i>High Flyin</i> ' and inform them that 8 th grade math students from the same class solved this problem. They will independently score four of the papers labeled Student Work Samples D-G using the holistic rubric.	How can sorting the papers be helpful in scoring holistically? In the scores from 1 to 4, where do you think there could be some "gray areas" in determining a holistic score? Explain.		
	Have participants sort the papers into three stack(s) according to the following guidelines: a. High- needs no re-teaching b. Medium- needs some re-teaching c. Low- needs re-teaching	Honsuc score: Explain.		
	The highs and lows are more easily apparent based on the overall quality. Those papers in the middle can be sorted based on the degree of re-teaching apparent into Medium(high) and Medium(low).			
5.	Have participants use the Activity Sheet Holistic Rubric to individually score each			

aturdant wards agreed D. there als O. After	
student work sample D through G. After assigning a score to each paper, have them	
write the evidence to support each score.	
6. Have participants discuss their assignment of	What would this student need to do to bring
scores within a small group with a focus on the evidence in the student work as a basis of the	his/her score up to a "4"?
score. Ask them to try to reach consensus on	How did you distinguish between a score of 1 and
the scoring.	a score of 2? Between a score of 2 and a score
, and the second	of 3?
7. Following the small group discussions, have a	How did your experience in reaching consensus
whole group discussion on holistic scoring.	using the holistic rubric compare to your experience in reaching consensus using the
Have them compare this experience with the	analytic rubric?
previous experience using the analytic rubric.	
Show Transparency <i>Analytic vs. Holistic</i>	
Scoring on the overhead. Ask participants to add other characteristics that distinguish	
analytic from holistic scoring based on their	
experience in using the rubrics.	
8. Ask participants to discuss how they would	Compare and contrast scoring student work with a
determine "which one to use" in small groups and be prepared to report to the whole group.	holistic rubric vs. an analytic rubric.
Allow a few minutes for brainstorming.	Which one requires more time to use? Explain.
	, , , , , , , , , , , , , , , , , , ,
Have each group share one idea and write	What type of feedback can you give students
these ideas on chart paper or record on the overhead. Continue this process until each	using the holistic vs. the analytic rubric?
group has had a chance to respond at least	How could you use each type of rubric to inform
twice.	instruction?
Next about the Transment of Which Co.	
Next, show the Transparency Which One Should I Use? on the overhead projector.	
Should i Ose? On the overhead projector.	
	<u>I</u>