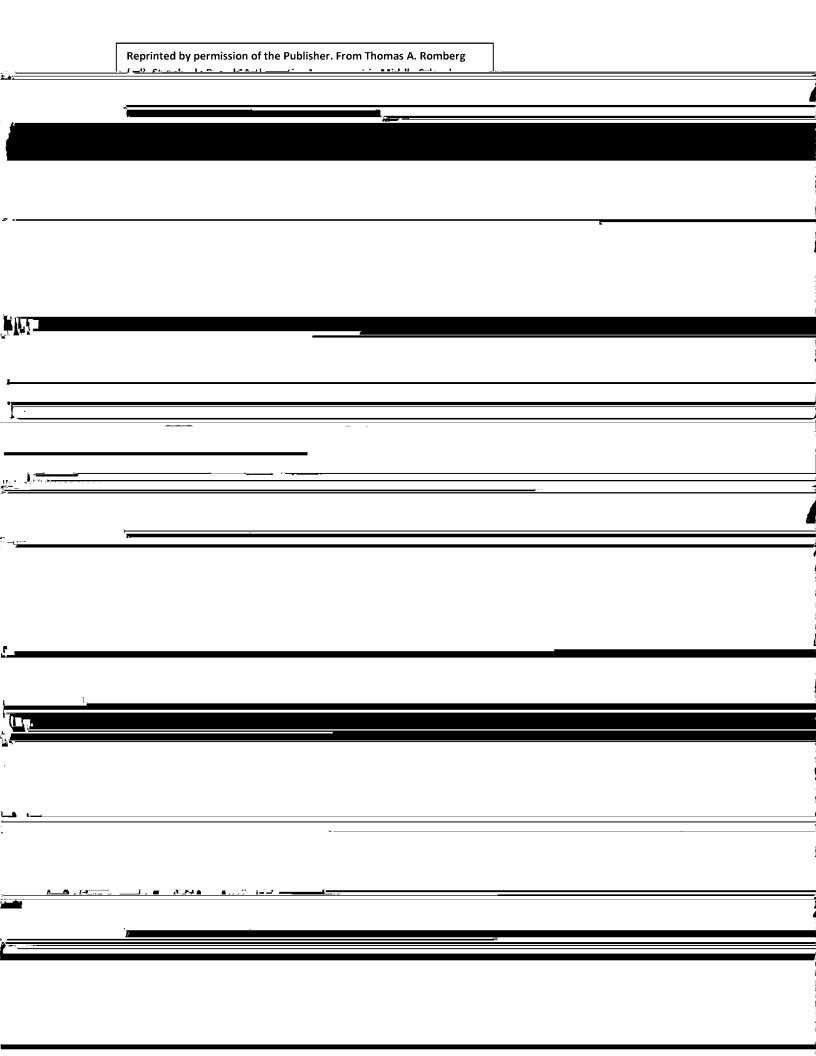
STATE HACKS

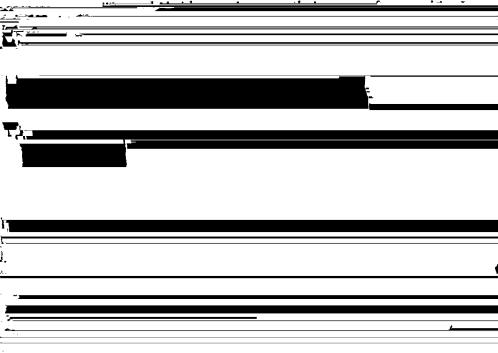
Viaunemauts Assessment





we required students to document attainment of mutually agreed-upon goals in a portfolio format for a pass-or-fail grade. We found this approach had similar mixed results.

More than anything, I wanted to be fair and honest with the students and respectful of the work that they were doing, honoring progress as well as finished products. During the school year, I had open discussions with students to ask what they thought about school, grades, and report cards, and what they would like to see changed. I

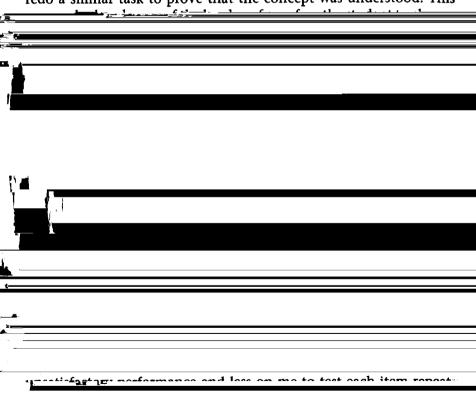


wanted to create a unique assessment system that combined aspects of goal setting and self-assessment with more uniform standards of achievement. Inherent in this system was the recognition of learning as a process and greater attention to student improvement. Improvement and growth were measured by comparing scores on a single

progress. This redefined grading system combined elements of de

grading rubric, so students could keep track of their progress throughout the unit (goals they had demonstrated, what remained yet to be demonstrated, and their current grade). An example of the student record sheet is shown in Figure 12.2.

I organized my grade book by main content objectives, with space to record student performance as 0 (not yet), 1 (in progress), or 2 (demonstrated). I heeded caution to keep the assessment load manageable by limiting the number of times I formally assessed each objective (one or two tasks or opportunities per objective), especially as I had made a commitment to trust in-class observation and other informal assessment strategies as valid information. Also built into the system was the opportunity for retakes or "prove-its," which were opportunities for students to conference with me about what was incorrect and to redo a similar task to prove that the concept was understood. This



6. Articulation	6. Articulation of estimation and calculation strategies					0	1	2
7. Relate percents to fractions and decimals					0	1	2	
8. Work backw	ard to	find starting	<u>pric</u>	e or discount		0	11	<u>2</u>
Analysis and Extension Level (Interpret, analyze, draw, and justify conclusions, construct informed opinions, extend and generalize)								
9. Compound	intere	st (rule of 7	2)			0	1	2
10. Refuting co	ommo	n mispercep	tions	with percent		0	1	2
11. Finding a p	ercen	t of a percen	t (fo	rward and back	ward)	0	1	2
12. Extended the	ninkin	g				0	1	2
Work Habits Participation								
Timeliness	0	1	2	Math ch discussi	nats; class on	0	1	2
Quality	0	1	2	Readine	ess	0	1	2
Grading Rubric								
A		В		C	D		F	
 All basic skills demonstrated most applica- tions demon- strated 	; (All basic skil demonstrate most applica ions at least in progress	d; -	Most basic skills demon- strated	• Most bas skills at l in progre	least	No evide any prog understa at any le	gress or nding
• Some extensions at least progress; wor habits and paticipation are exceptional	in a	Work habits and participa ion are con- sistent	l-	Work habits and participa- tion are somewhat consistent	Work had and partition at inconsists	ci- re	Work hal participa nonexist	tion are

Increased Student Involvement, Accountability, and Self-Advocacy

One immediate benefit of shifting from an emphasis on grades to an emphasis on assessing understanding was the impact it had on student communication and involvement. The student record forms, progress reports, and class conversations about assessment played a

major role in increasing student fluency in the language of mathematics so that students were able to communicate the specific skills that they were learning and the concepts that they did not understand. They also were able to communicate what they were learning to parents and others. Even without the benefit of the forms in front of

them, many students were able to articulate a clear understanding of and appreciation for the assessment process. The student responses in the following interview excerpts illustrate some student perceptions of this approach:

Interviewer: Describe how things have changed between the old system and the new system.

Student: In the old system, she would like give you sheets and stuff to work on, and then she would score it. So if it was late, you would still get a point off whether or not everything was right on it. And now she is looking for how well you have demon-

Similar to the fun book chats my language arts teammate had developed as a more interactive alternative to regular book reports, math chats were organized during the mandatory tutorial period or after school as informal opportunities for students to demonstrate achievement of learning goals and verbalize higher-level thinking. During a session, I would sit with a small group of students to discuss either an area of mathematics they were struggling with or an enrichment activity they wanted to explore further. Students established the goal of the session. Sometimes students selected the math problems they wanted to discuss, and other times I would select "brain stretchers" to push students to extend and apply their mathematical knowledge in new ways. I quickly found that math chats gave me additional insight into students' math thinking, abilities, struggles, and comprehension in lieu of constant test writing and grading. Math chats also were an opportunity to try out questioning techniques and instructional strategies to help students overcome challenging content, techniques that I would use in later lessons. For example, for a group of students who

Raising the Academic Bar

Although increased stuwith students contribute to dents' interest in learning of vation to raise the academic the three levels of reasoning plan tasks and activities that as a result, to raise my own so that I could offer challen

Interviewer: What is the diff

dents who wanted to press b dents continuously rose to achieved more than ever be

percentages).

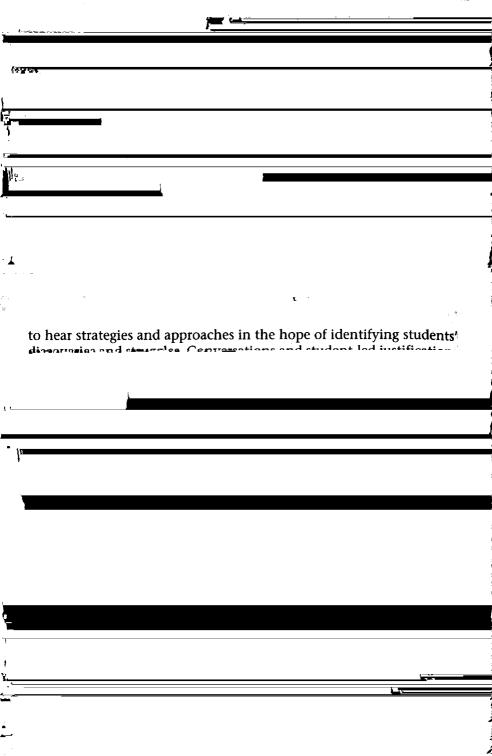
Grade 8—Introduction

- Understand how different algorithms work for arithmetic computations and operations. Use appropriate computational methods (e.g., mental, paper and pencil, calculator, computer, spreadsheet) for situations with rational numbers.
- Perform operations on rational numbers (add, subtract, multiply, divide...).
 Understand the concept of proportion and the applications of proportional reasoning (e.g., scale, similarity, percentage, rate).
- Apply proportional thinking in a variety of problem situations that include)Ratios and proportions (e.g., rates, scale drawings, similarity).
 - >Percents, including greater than 100% and less than 1% (discounts, rates of increase and decrease, sales tax).

Curricular Goals and Objectives:

Basic Skills Level

- 1. Reasonable estimations (multiplying decimals and fractions).
- 2.



A Philosophy of Respect for Students

Because true educational reform above all should benefit students, a desire to improve the learning opportunities for students will not be made willingly unless one is motivated by a concern for their welfare. It takes little effort as a teacher to maintain teacher-centered practices.

