

Understanding Rubrics

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RUBRICS

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Every time I introduce rubrics to a group of teachers the reaction is the same - instant appeal ("Yes, this is what I need!") followed closely by panic ("Good grief, how can I be expected to develop a rubric for everything?"). When you learn what rubrics do--and why--you can create and use them to support and assess student learning without losing your sanity.

What Is a Rubric?

A rubric is a scoring tool that lists the criteria for a piece of work, or "what counts" (for example, purpose, organization, details, voice, and mechanics are often what count in a piece of writing); it also articulates gradations of quality for each criterion, from excellent to poor. The term defies a dictionary definition, but it seems to have established itself, so I continue to use it.

The example in Figure 1 (adapted from Perkins et al 1994) lists the criteria and gradations of quality for verbal, written, or graphic reports on student inventions - for instance, inventions designed to ease the Westward journey for 19th century pioneers for instance, or to solve a local environmental problem, or to represent an imaginary culture and its inhabitants, or anything else students might invent.

This rubric lists the criteria in the column on the left: The report must explain (1) the purposes of the invention, (2) the features or parts of the invention and how they help it serve its purposes, (3) the pros and cons of the design, and (4) how the design connects to other things past, present, and future. The rubric could easily include criteria related to presentation style and effectiveness, the mechanics of written pieces, and the quality of the invention itself.

The four columns to the right of the criteria describe varying degrees of quality, from excellent to poor. As concisely as possible, these columns explain what makes a good piece of work good and a bad one bad.

<p align="center">Figure One RUBRIC FOR AN INVENTION REPORT</p>				
Criteria	Quality			
Purposes	The report explains the key purposes of the invention and points out less obvious ones as well.	The report explains all of the key purposes of the invention.	The report explains some of the purposes of the invention but misses key purposes.	The report does not refer to the purposes of the invention.
Features	The report details both key and hidden features of the invention and explains and explains	The report details the key features of the invention and explains they serve.	The report neglects some features of the invention or the purposes they serve.	The report does not detail the features of the invention or the purposes they serve.

	how they serve several purposes.			
Critique	The report discusses the strengths and weaknesses of the invention, and suggests ways in which it can be improved.	The report discusses the strengths and weaknesses of the invention.	The report discusses either the strengths or weaknesses of the invention but not both.	The report does not mention the strengths or the weaknesses of the invention.
Connections	The report makes appropriate connections between the purposes and features of the invention and many different kinds of phenomena.	The report makes appropriate connections between the purposes and features of the invention and one or two phenomena.	The report makes unclear or inappropriate connections between the invention and other phenomena.	The report makes no connections between the invention and other things.

Why Use Rubrics?

Rubrics appeal to teachers and students for many reasons. First, they are powerful tools for both teaching and assessment. Rubrics can improve student performance, as well as monitor it, by making teachers' expectations clear and by showing students how to meet these expectations. The result is often marked improvements in the quality of student work and in learning. Thus, the most common argument for using rubrics is they help define "quality." One student actually *didn't* like rubrics for this very reason: "If you get something wrong," she said, "your teacher can prove you knew what you were supposed to do!" (Marcus 1995).

A second reason that rubrics are useful is that they help students become more thoughtful judges of the quality of their own and others' work. When rubrics are used to guide self- and peer-assessment, students become increasingly able to spot and solve problems in their own and one another's work. Repeated practice with peer-assessment, and especially self-assessment, increases students' sense of responsibility for their own work and cuts down on the number of "Am I done yet?" questions.

Third, rubrics reduce the amount of time teachers spend evaluating student work. Teachers tend to find that by the time a piece has been self- and peer-assessed according to a rubric, they have little left to say about it. When they do have something to say, they can often simply circle an item in the rubric, rather than struggling to explain the flaw or strength they have noticed and figuring out what to suggest in terms of improvements. Rubrics provide students with more informative feedback about their strengths and areas in need of improvement.

Fourth, teachers appreciate rubrics because their "accordion" nature allows them to accommodate heterogeneous classes. The examples here have three or four gradations of quality, but there is no reason they can't be "stretched" to reflect the work of both gifted students and those with learning disabilities.

Finally, rubrics are easy to use and to explain. Christine Hall, a fourth grade teacher, reflected on how both students and parents responded to her use of rubrics:

Students were able to articulate what they had learned, and by the end of the year could be accurate with their evaluations. Parents were very excited about the use of rubrics. During parent conferences I used sample rubrics to explain to parents their purpose, and how they were used in class. The reaction of parents was very encouraging. They knew exactly what their child needed to do to be successful.

How Do You Create Rubrics?

Rubrics are becoming increasingly popular with educators moving toward more authentic, performance-based assessments. Recent publications contain some rubrics (Brewer 1996; Marzano et al 1993). Chances are, however, that you will have to develop a few of your own rubrics to reflect your own curriculum and teaching style. To boost the learning leverage of rubrics, the rubric design process should engage students in the following steps:

1. Look at models:

Show students examples of good and not-so-good work. Identify the characteristics that make the good ones good and the bad ones bad.

2. **List criteria:** Use the discussion of models to begin a list of what counts in quality work.

3. Articulate gradations of quality:

Describe the best and worst levels of quality, then fill in the middle levels based on your knowledge of common problems and the discussion of not-so-good work.

4. **Practice on models:** Have students use the rubrics to evaluate the models you gave them in Step 1.

5. **Use self- and peer-assessment:** Give students their assignment. As they work, stop them occasionally for self- and peer-assessment.

6. **Revise:** Always give students time to revise their work based on the feedback they get in Step 5.

7. **Use teacher assessment:** Use the same rubric students used to assess their work yourself.

Step 1 may be necessary only when you are asking students to engage in a task with which they are unfamiliar. Steps 3 and 4 are useful but time-consuming; you can do these on your own, especially when you've been using rubrics for a while. A class experienced in rubric-based assessment can streamline the process so that it begins with listing criteria, after which the teacher writes out the gradations of quality, checks them with the students, makes revisions, then uses the rubric for self-, peer-, and teacher assessment.

Ann Tanona, a second grade teacher, went through the seven-step process with her students. The result was a rubric for assessing videotaped *Reading Rainbow*-style "book talks" (fig. 2).

Figure 2 BOOK TALK RUBRIC			
Criteria	Quality		
Did I get my audience's attention?	Creative beginning	Boring beginning	No beginning
Did I tell what kind of book?	Tells exactly what type of book it is	Not sure, not clear	Didn't mention it
Did I tell something about the main character?	Included facts about character	Slid over character	Did not tell anything about main character
Did I mention the setting?	Tells when and where story takes place	Not sure, not clear	Didn't mention setting
Did I tell one interesting part?	Made it sound interesting - I want to buy it!	Told part and skipped on to something else	Forgot to do it
Did I tell who might like this book?	Did tell	kipped over it	Forgot to tell
How did I look?	Hair combed, neat, clean clothes, smiled, looked up, happy	Lazy look	Just-got-out-of-bed look, head down
How did I sound?	Clear, strong, cheerful voice	No expression in voice	Difficult to understand- 6-inch voice or screeching

Tips on Designing Rubrics

Ann's rubric is powerful because it articulates the characteristics of a good "book talk" in students' own words. It also demonstrates some of the

difficulties of designing a good rubric.

Perhaps the most common challenge is avoiding unclear language, such as "creative beginning." If a rubric is to teach as well as evaluate, terms like these must be defined for students. Admittedly, *creative* is a difficult word to define. Ann handled this problem by having a discussion of what the term "creative beginning" meant in the book talks. Patricia Crosby and Pamela Heinz, both seventh grade teachers, solved the same problem in a rubric for oral presentations by actually listing ways in which students could meet the criterion (fig. 3). This approach provides valuable information to students on how to begin a talk and avoids the need to define elusive terms like *creative*.

Figure 3			
RUBRIC FOR AN ORAL PRESENTATION			
Criterion	Quality		
Gains attention of audience.	Gives details or an amusing fact, a series of questions, a short demonstration, a colorful visual or a personal reason why they picked this topic.	Does a one- or two-sentence introduction, then starts speech.	Does not attempt to gain attention of audience, just starts speech.

A second challenge in rubric design is avoiding unnecessarily negative language. The excerpt from the rubric in Figure 3 avoids words like *boring* by describing what was done during a so-so beginning to a talk and implicitly comparing it with the highest level of quality. Thus, students know exactly what they did wrong and how they can do better next time, not just that the opening to their talk was boring.

Articulating gradations of quality is often a challenge. It helps if you spend a lot of time thinking about criteria and how best to chunk them before going on to define the levels of quality. You might also try a clever technique I have borrowed from a fifth grade teacher in Gloucester, Massachusetts. She describes gradations of quality as: "Yes," "Yes but," "No but," and "No." For example, Figure 4 shows part of a rubric for evaluating a scrapbook that documents a story. This approach tends to work well, as long as you aren't too rigid about it. Rigidity can have amusing results: One student wrote out the lowest level of quality for the criterion, "Is it anachronism free?" this way: "No, I did not remember to not use anachronism"!

Figure 4				
RUBRIC FOR EVALUATING A SCRAPBOOK				
Criterion	Quality			
Gives enough details.	Yes, I put in enough details to give the reader a sense of time, place, and events.	Yes, I put in some details, but some key details are missing.	No, I didn't put in enough details, but I did include a few.	No, I had almost no details.

What to Do Once You've Created Rubrics

Creating rubrics is the hard part - using them is relatively easy. Once you've created a rubric, give copies to students and ask them to assess their own progress on a task or project. Their assessments should not count toward a grade. The point is for the rubric to help students learn more and produce better final products, so including self-assessments in grades is unnecessary and can compromise students' honesty.

Always give students time to revise their work after assessing themselves, then have them assess one another's work. Peer-assessment takes some getting used to. Emphasize the fact that peer-assessment, like self-assessment, is intended to help everyone do better work. You may also need to hold students accountable for their assessments of a classmate's work by having them sign off on the rubric they use. You can then see how fair and accurate their feedback is, and you can ask for evidence that supports their opinions when their assessments don't match yours. Again, giving time for revision after peer-assessment is crucial.

Parents can use rubrics to help their children with their homework. Finally, when you assess student work, use the same rubric that was used for self- and peer-assessment. When you hand the marked rubric back with the students' work, they'll know what they did well and what they need to work on in the future.

Grading (if you must) is also relatively easy with rubrics. A piece of work that reflects the highest level of quality for each criterion obviously deserves an *A*, one that consistently falls in the lowest level is a *D* or *F*, and so on. Because one piece of work rarely falls in only one level of quality, many teachers average out the levels of quality, either formally or informally.

Rubrics can also be included in portfolios. However you use them, the idea is to support and to evaluate student learning. Students, as well as teachers, should respond to the use of rubrics by thinking, "Yes, this is what I need!"

References

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OTHER RUBRICS from Heidi Goodrich Andrade

Persuasive Essay Prompt and Rubric

The State of California has a law that all students must be educated until they are 16 years old. This law passed after some debate. Some people thought it was a good law, some didn't. Put yourself in these lawmakers' shoes and argue either for or against this law.

In a 5-paragraph essay, be sure to:

- form an opinion on this issue and support it with strong arguments and relevant information.
- use your knowledge of democracy to explain how having or not having such a law would affect a democratic society like ours.

PERSUASIVE ESSAY RUBRIC				
Criteria	Quality			
	4	3	2	1
Make a claim	I make a claim and explain why it is controversial.	I make a claim but don't explain why it is controversial.	I make a claim but it is buried, confused, or unclear.	I do not make a claim.

Give reasons in support of the claim	I give clear and accurate reasons in support of the claim.	I give reasons in support of the claim, but overlook important reasons.	I give 1 or 2 reasons which don't support the claim well, and/or irrelevant or confusing reasons.	I do not give convincing reasons in support of the claim.
Consider reasons against the claim	I thoroughly discuss reasons against the claim and explain why the claim is valid anyway.	I discuss reasons against claim, but leave out important reasons and/or don't explain why the claim still stands.	I acknowledge that there are reasons against the claim but don't explain them.	I do not give reasons against the claim.
Relate the claim to democracy	I discuss how democratic principles and democracy can be used both in support of and against the claim.	I discuss how democratic principles and democracy can be used to support the claim.	I say that democracy and democratic principles are relevant but do not explain how or why clearly.	I do not mention democratic principles or democracy.
Organization	My writing is well organized, has a compelling opening, strong informative body and satisfying conclusion. Has appropriate paragraph format.	My writing has a clear beginning, middle and end. I generally use appropriate paragraph format.	My writing is usually organized but sometimes gets off topic. Has several errors in paragraph format.	My writing is aimless and disorganized.
Word choice	The words I use are striking but natural, varied and vivid.	I use mostly routine words.	My words are dull, uninspired or they sound like I am trying too hard to impress.	I use the same words over and over and over.... Some words may be confusing.
Sentence Fluency	My sentences are clear, complete and of different lengths.	I wrote well-constructed but routine sentences.	My sentences are often flat or awkward. Some run-ons and fragments.	Many run-ons, fragments and awkward phrasings make my essay hard to read.
Conventions	I use first-person form, and I use correct sentence structure,	My spelling is correct on common words. some erros in grammar and punctuation. I	Frequent errors are distracting to the reader but do not interfere	Many errors in grammar, capitalization, spelling and punctuation make my

grammar, punctuation and spelling.	need to revise it again.	with the meaning of my paper.	paper hard to read.
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Autobiographical Event Essay Prompt and Rubric

Write about an event in your life that taught you something or made you grow as a person. Tell the story in a way that will let your readers enter into it and understand what it meant to you.

SEE: [RUBRIC FOR AUTOBIOGRAPHICAL EVENT ESSAY](#) here.

ALSO:

[Student perspectives on rubric-referenced assessment](#)

Andrade, Heidi and Ying Du

[The Rubric Machine](#)

The Rubric Machine enables you to construct and implement scoring rubrics into your instruction as a means for providing learning-centered feedback and assessment of student work.

[A Rubrics Sampler \(Grant Wiggins - PDF\)](#)

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["Tools for Creating Useful Rubrics"](#)

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