Training for Georgia Performance Standards
Day 3: Assessment FOR Learning

Participant’s Guide
Middle Grades Science

We will lead the nation in improving student achievement.
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Acknowledgements

This training program was developed by the Georgia Department of Education as part of a series of professional development opportunities to help teachers increase student achievement through the use of the Georgia Performance Standards.

For more information on this or other GPS training modules, please contact Robin Gower at (404) 463-1933 or rogower@doe.k12.ga.us.

Use of This Guide

The module materials, including a Leader’s Guide, Participant’s Guide, PowerPoint Presentation, and supplementary materials, are available to designated trainers throughout the state of Georgia who have successfully completed a Train-the-Trainer course offered through the Georgia Department of Education.
Agenda

This is a one-day course, with approximately 6½ hours of instructional time.

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Module Goal

Demonstrate a deep understanding of the new Georgia Performance Standards and the standards-based education approach, through thoughtful curriculum planning, development of formative and summative assessments, and the design of instruction matched to the standards and research-based best practices. This shall be measured by student performance on progress monitoring and standardized criterion-referenced tests.

Key words from the goal:

- Deep understanding
- Georgia Performance Standards (GPS)
- Standards-based education
- Research-based best practices

Note that the goal will not be reached by any single day of training. It will take preparation, follow up, and eight days of classroom instruction to master this goal.

Module Objectives

1. Explain why assessment is Stage 2 in the Standards-Based Education process.

2. Identify the purpose of assessment in the classroom.

3. Differentiate among different types of assessment and assessment formats.

4. Given specific standards and a purpose for assessment, determine which assessment methods would be most appropriate at various times to increase student learning.

5. Determine guidelines for constructing performance assessments and rubrics.

6. Explain the differences between assessment and grading.

7. Create a balanced assessment plan for a unit, including examples of performance tasks and rubrics.
GPS and the Unit Design Process

**Stage 1**
Identify Desired Results
What do I want my students to know and be able to do?

- Big Ideas ➔
- Enduring Understandings ➔
- Essential Questions ➔

Skills and Knowledge

**Stage 2**
Determine Acceptable Evidence (Design Balanced Assessments)
How will I know if my students know it and/or can do it?

(to assess student progress toward desired results)

**Stage 3**
Plan Learning Experiences and Instruction
What will need to be done to help my students learn the required knowledge and skills?

(to support student success on assessments, leading to desired results)
**Rubric for Hook Activity**

Materials: 3 judges, rubrics, score sheets, white boards, markers, 5 contestants

Directions for Assessees:

Person 1
Tell me a noun.

Person 2
Tell me a noun naming an organism.

Person 3
Tell me a noun naming an organism and say it with gestures more than sound.

Person 4
Tell me a noun naming a predator with fur and enjoy saying it with gestures more than sound.

**Rubric for scoring:**

<table>
<thead>
<tr>
<th>Scale</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noun</td>
<td>Any noun</td>
<td>Is an organism</td>
<td>Is an animal</td>
<td>Is a mammal</td>
<td>Is a furry predator</td>
</tr>
<tr>
<td>Delivery</td>
<td>Shouts</td>
<td>Loud voice</td>
<td>Normal voice</td>
<td>Spoken quietly</td>
<td>Whispered or mouthed</td>
</tr>
<tr>
<td>Gestures</td>
<td>Frowns and shrugs</td>
<td>Looks blank</td>
<td>Smiles, looks pleasant</td>
<td>Animated</td>
<td>Makes gestures such as clawing or biting</td>
</tr>
</tbody>
</table>
Creating a Photo Album, Not a Snapshot, of Assessment Results

A Faculty Questionnaire

Instructional leaders can help transform assessment practices in their school or district by encouraging all staff to understand the importance of a photo album approach to this process. Use the following staff questionnaire to determine staff perceptions about the extent to which a balanced, photo album approach to assessment is operational in your school or district. Each staff member uses the following rating scale to evaluate the extent to which each strategy is presently operational, with follow-up planning at departmental or grade levels to create an action plan to address omissions.

1. We avoid one-shot or limited assessment approaches.
2. Our assessment process is based upon multiple forms of evidence, not just tests and quizzes.
3. We seek to create a varied and comprehensive portrait of students’ progress aligned with consensus-driven content and performance standards.
4. Our tests and quizzes include constructed-response items in addition to such selected-response assessment activities as multiple choice, true-false, and fill-in-the-blank.
5. We encourage our students to reflect, revise, rethink, and refine.
6. We support all students in the process of self-assessment and self-evaluation, ensuring that they monitor their own progress against our standards.
7. We use a variety of reflective assessment tools, including reflective journals, think logs, evaluation activities, think-pair-share exercises, and peer response groups.
8. All classrooms make use of academic prompts to present assessment tasks, including clear articulation of format, audience, topic, and purpose for each task.
9. At key points in each grading period, students participate in real-world, authentic culminating projects that allow them to demonstrate their understanding and mastery of standards in creative, innovative, and original ways.
10. Each student maintains a portfolio of his or her work in every classroom and subject, including maintenance of representative work products and artifacts as well as reflections and self-evaluations.

Rating Scale:

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Highly and consistently evident throughout our school</td>
</tr>
<tr>
<td>4</td>
<td>Consistently evident in a majority of grade levels and/or departments</td>
</tr>
<tr>
<td>3</td>
<td>Consistently evident in some grade levels and/or departments</td>
</tr>
<tr>
<td>2</td>
<td>Sporadically evident</td>
</tr>
<tr>
<td>1</td>
<td>Little if any evidence</td>
</tr>
<tr>
<td>0</td>
<td>No evidence</td>
</tr>
</tbody>
</table>
Defining Our Terms

**Directions:**
One of the key aspects of effective balanced assessment is staff members’ achievement of consensus regarding the meaning of key terms.

1. Create your own definition for each of the following terms.
2. Find a partner and explore how you agree, or disagree, about the meaning of each term.
3. Join other teams at your table to build a group consensus of the meaning of each term.

1. **Assessment:**
   - *My definition:*
   - *Pairs-share definition:*
   - *Group definition:*

2. **Evaluation:**
   - *My definition:*
   - *Pairs-share definition:*
   - *Group definition:*

3. **Content Standards:**
   - *My definition:*
   - *Pairs-share definition:*
   - *Group definition:*

4. **Performance Standards:**
   - *My definition:*
   - *Pairs-share definition:*
   - *Group definition:*

5. **Characteristics of Science Standards:**
   - *My definition:*
   - *Pairs-share definition:*
   - *Group definition:*

6. **Assessment for Learning:**
   - *My definition:*
   - *Pairs-share definition:*
   - *Group definition:*

7. **Assessment of Learning:**
   - *My definition:*
   - *Pairs-share definition:*
   - *Group definition:*

8. **Benchmarks:**
9. **Formative vs. Summative Assessment**:  
*My definition:*  
*Pairs-share definition:*  
*Group definition:*

10. **Performance Assessment:**  
*My definition:*  
*Pairs-share definition:*  
*Group definition:*

11. **Authentic Assessment:**  
*My definition:*  
*Pairs-share definition:*  
*Group definition:*

12. **Rubric:**  
*My definition:*  
*Pairs-share definition:*  
*Group definition:*

13. **Checklist:**  
*My definition:*  
*Pairs-share definition:*  
*Group definition:*

14. **Feedback-adjustment Process:**  
*My definition:*  
*Pairs-share definition:*  
*Group definition:*

15. **Progress Monitoring**  
*My definition:*  
*Pairs-share definition:*  
*Group definition:*
**Classroom Assessment Strategies**

<table>
<thead>
<tr>
<th>Selected Response</th>
<th>Constructed Response</th>
<th>Performance Assessment</th>
<th>Informal Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Multiple Choice</td>
<td>• Fill-in-the-blank (words, phrases)</td>
<td>• Presentation</td>
<td>• Oral questioning</td>
</tr>
<tr>
<td>• True-False</td>
<td>• Essay</td>
<td>• Movement</td>
<td>• Observation</td>
</tr>
<tr>
<td>• Matching</td>
<td>• Short answer (sentences, paragraphs)</td>
<td>• Science lab</td>
<td>• Interview</td>
</tr>
<tr>
<td></td>
<td>• Diagram</td>
<td>• Athletic skill</td>
<td>• Conference</td>
</tr>
<tr>
<td></td>
<td>• Web</td>
<td>• Dramatization</td>
<td>• Process description</td>
</tr>
<tr>
<td></td>
<td>• Concept Map</td>
<td>• Enactment</td>
<td>• Checklist</td>
</tr>
<tr>
<td></td>
<td>• Flowchart</td>
<td>• Project</td>
<td>• Rating scale</td>
</tr>
<tr>
<td></td>
<td>• Graph</td>
<td>• Debate</td>
<td>• Journal sharing</td>
</tr>
<tr>
<td></td>
<td>• Table</td>
<td>• Model</td>
<td>• Thinking aloud a process</td>
</tr>
<tr>
<td></td>
<td>• Matrix</td>
<td>• Exhibition</td>
<td>• Student self-assessment</td>
</tr>
<tr>
<td></td>
<td>• Illustration</td>
<td>• Recital</td>
<td>• Peer review</td>
</tr>
</tbody>
</table>

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Descriptions of Assessment Formats

Selected Response

Selected Response items, which include multiple-choice questions, true/false items, and matching exercises, are the most common forms of assessments. Selected Response items are best used in assessing breadth of content (McREL, 2000). Although Selected Response items often are used to assess students’ recall and recognition of information, they also can be constructed to assess higher level thinking. For example, they might be used to assess students’ understanding of concepts, their ability to apply knowledge, or their skill in predicting the consequences of an action.

Selected Response formats are appropriate for use in a written form only when you are absolutely sure that students have a sufficiently high level of reading proficiency to be able to understand the test items. If you are administering a Selected Response assessment to students who are poor readers, nonreaders, or students who are still learning English, you must help them overcome their reading difficulty in order to determine their content mastery and obtain an accurate estimate of achievement.

It is possible, however, to use a Selected Response assessment in the primary grades or with students who are still learning English if the teacher reads the questions and provides pictorial response options.

Selected Response formats are appropriate to use when you need efficiency, as you can administer them to large numbers of students at the same time, and you can score them quickly.

Constructed Response

Short constructed response items may be questions that require students to prepare short written responses such as responses to short essay questions. For example, a science teacher might ask students to provide a brief explanation of how clouds affect weather and climate or a mathematics teacher might ask students to explain how they arrived at the answer to a mathematics problem. A language arts teacher might ask students to locate and explain examples of particular figures of speech in a specified passage. The value of this type of item is that it requires students to generate their own responses, yet it is not as time intensive as are other assessment forms. In addition, this type of item can be effectively used to assess students’ understanding of concepts.
Performance Assessments

Performance tasks require students to apply learning to specific tasks and situations to demonstrate their knowledge. These tasks might include conducting interviews or creating physical products, oral presentations, videotapes, musical productions, or historical re-enactments. Research indicates that performance tasks can more deeply engage all students in their learning and can lead to a deeper understanding of content (Newmann, Secada, & Wehlage, 1995). Performance tasks can vary in terms of their complexity, time required for completion, and scope of content assessed. For example, students might be asked to do something as simple as read a poem or as complex as write and perform an original song or conduct a group investigation. In any case, teachers should clearly describe the nature of the final product, resources students will need, and the criteria that will be used to evaluate the product. Teachers should embed performance tasks in meaningful contexts so students can see the relevance and usefulness of the knowledge and skills they are learning. This makes it easier for all students to demonstrate what they know. Students might find performance tasks particularly motivating and engaging because they present opportunities to bring their cultural backgrounds into classroom learning experiences (see Farr & Trumbull, 1997). Performance tasks also can be quite useful when it is necessary to provide adaptations and accommodations for special needs students. Accommodations in content, format, administration procedures, scoring, and interpretation are more viable with performance tasks than with forced-choice items (Farr & Trumbull, 1997).

Informal & Self-Assessment

Informal assessments occur in every classroom every day. When teachers observe students working independently or in groups, they are assessing informally. When teachers observe students working to solve a problem or reading a text or viewing a newsclip, they are assessing informally. When students ask and answer questions, or dialogue with the teacher or with their classmates, or work in small groups, teachers informally assess knowledge and understanding. Informal assessments are usually subjective. While a teacher may employ specific criteria during informal observations or discussions, often s/he does not. Self-assessment represents another type of informal assessment. Students or teachers might use checklists to assess informally or to self-assess. Students self-assess as they become constructive critics of their own work or assess their growth or progress toward their learning goals. Assessing one’s own work is a skill that must be taught; but as students learn to self-assess, they take charge of their own learning and their achievement improves.
Balanced Assessment Evidence: A Self-assessment

**Directions:** Use the following scale to rate your level of use of each of the following assessments.

3 = Frequent Use  
2 = General Use  
1 = Infrequent Use  
0 = No Evidence of Use

1. _____ Fill-in-the-blank quizzes or tests
2. _____ Projects
3. _____ Student self-assessments
4. _____ Matching quizzes or tests
5. _____ Oral presentations (e.g., dramatization, recitation)
6. _____ Reflective journals or learning logs
7. _____ True-false quizzes or tests
8. _____ Teacher-student conferences
9. _____ Illustrations
10. _____ Products (e.g., PowerPoint show, piece of art, model)
11. _____ Observations of students using observable indicators or criteria list.
12. _____ Oral questioning
13. _____ Peer reviews and peer response groups.
14. _____ Creations of graphic organizers (e.g., graphs, tables, illustrations)
15. _____ Multiple-choice quizzes and tests
16. _____ Essay quizzes and tests
17. _____ Multiple-step projects or scenarios

18. _____ Written process descriptions (e.g., in determining a solution: science lab, math solution, etc.)

19. _____ Short answer quizzes and tests

20. _____ Demonstration of a skill

Adapted from Understanding by Design Professional Development Workbook

Transfer your scores to the corresponding item number below:

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Your score</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>1.</td>
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<tr>
<td>7.</td>
<td>9.</td>
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<tr>
<td>15.</td>
<td>14.</td>
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<tr>
<td>16.</td>
<td>17.</td>
</tr>
<tr>
<td>19.</td>
<td>20.</td>
</tr>
<tr>
<td>TOTAL:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Your score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2.</td>
</tr>
<tr>
<td>5.</td>
<td>10.</td>
</tr>
<tr>
<td>17.</td>
<td>18.</td>
</tr>
<tr>
<td>11.</td>
<td>12.</td>
</tr>
<tr>
<td>13.</td>
<td></td>
</tr>
</tbody>
</table>

Compare and contrast your totals for the various assessment formats.

Does your classroom practice reflect a balance of assessment types?

Which assessment formats might you add or use more frequently in order to provide a more balanced picture of students’ knowledge, skills, and understanding?

Which assessment formats might you use less frequently in order to provide a more balanced picture of students’ knowledge, skills, and understanding?
Skills and Knowledge

Knowledge. Getting students to construct meaning, organize information, and (selectively) store information. This includes:

- Vocabulary
- Terminology
- Definitions
- Key factual information
- Formulas
- Critical details
- Important events, people
- Sequence and timelines
- Rules
- Laws
- Principles
- Concepts

Skills. Getting students to demonstrate the ability to do something. These may be very simple, discrete operations, or more complex creative ones. This includes:

- Actions, procedures, and processes
- Basic skills—decoding, arithmetic computation
- Psychomotor skills—running, swimming a back stroke, playing an instrument
- Study skills
- Communication skills—listening, speaking, writing
- Thinking skills—comparing, inferring, analyzing, interpreting
- Research, inquiry, investigation skills
- Interpersonal/group skills

Verbs to use when stating skills and knowledge. These are samples only:

- Demonstrate
- Derive
- State
- Describe
- List
- Design
- Express
- Induce
- Instruct
- Create
- Critique
- Compare/contrast
- Evaluate
- Illustrate
- Judge
- Make meaning of
- Make sense of
- Use
- Model
- Predict
- Prove
- Show
- Synthesize
- Justify
- Choose
- Imagine
- Assess
- Write
- Draw
- Translate
- Adapt
- Build
- Determine
- Perform
- Solve
- Test

How to develop skills and knowledge statements: Look at the enduring understandings, essential questions, and elements. Ask yourself, “What skills and knowledge do students need in order to reach this goal?” Start each skill/knowledge statement with a verb.

### Matching Assessments with Standards

<table>
<thead>
<tr>
<th>ACHIEVEMENT TARGET</th>
<th>ASSESSMENT FORMAT</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Selected Response</td>
<td>Constructed Response</td>
<td>Performance Tasks</td>
<td>Informal Assessment</td>
</tr>
<tr>
<td>Informational (Knowledge)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Process (Skills)</td>
<td></td>
<td></td>
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<tr>
<td>Thinking and Reasoning</td>
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<tr>
<td>Communication</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
<td></td>
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</tbody>
</table>
## Matching Assessments with Standards

<table>
<thead>
<tr>
<th>ACHIEVEMENT TARGET</th>
<th>Selected Response</th>
<th>Constructed Response</th>
<th>Performance Tasks</th>
<th>Informal Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informational (Knowledge)</td>
<td>Can sample mastery of elements of knowledge</td>
<td>Essays can tap understanding of relationships among elements of knowledge</td>
<td>Not a good choice for this target; other options preferred</td>
<td>Teacher can ask questions, evaluate answers, and infer mastery; but time-consuming</td>
</tr>
<tr>
<td>Process (Skills)</td>
<td>Can assess mastery of the path to skillful performance, but cannot rely on these</td>
<td></td>
<td>Can observe and evaluate skills as they are being performed</td>
<td>Strong match when skill is oral communication</td>
</tr>
<tr>
<td></td>
<td>to skillful performance, but cannot rely on these to tap the skill itself.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thinking and Reasoning</td>
<td>Can assess application of some patterns of reasoning</td>
<td>Written descriptions of complex problem solutions can provide insight into reasoning proficiency.</td>
<td>Can watch students solve some problems or examine some products and infer about reasoning proficiency</td>
<td>Can ask students to “think aloud” or can ask follow-up questions to probe reasoning</td>
</tr>
<tr>
<td>Communication</td>
<td>Not a good choice for this target; other options preferred</td>
<td>Not a good choice for this target; other options preferred</td>
<td>Can observe and evaluate some skills, such as oral communication</td>
<td>Strong match with some communication skills</td>
</tr>
<tr>
<td>Other:</td>
<td></td>
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</tbody>
</table>

-Adapted from Marzano and Stiggins

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**Assessment Matrix**

Use the matrix to plan a balanced assessment for your unit. In the columns under the Assessment Formats, be specific about the specific type of assessment you will use (e.g., under Selected Response, I may choose to use a multiple-choice assessment for a specific standard I am including in my unit plan). Consider the “Critical Filters” as you design your plan.

<table>
<thead>
<tr>
<th>Assessment → Standard ▼</th>
<th>Selected Response</th>
<th>Constructed Response</th>
<th>Performance Assessment</th>
<th>Informal Assessment</th>
</tr>
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<tbody>
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</table>
Guidelines for Performance Assessment

When constructing performance assessment tasks, it helps to use the acronym GRASPS.

**G** Real-world **Goal**

**R** Real-world **Role**

**A** Real-world **Audience**

**S** Real-world **Situation**

**P** Real-world **Products** or **Performances**

**S** **Standards**

---

**Example**

**Goal:** The goal (within the scenario) is to minimize costs for shipping bulk quantities of M&Ms.

**Role:** You are an engineer in the packaging department of the M&Ms candy company.

**Audience:** The target audience is nonengineer company executives.

**Situation:** You need to convince penny-pinching company officers that your container design will provide cost-effective use of the given materials, maximize shipping volume of bulk quantities of M&Ms, and be safe to transport.

**Product:** You need to design a shipping container from given materials for the safe and cost-effective shipping of the M&Ms. Then you will prepare a written proposal in which you include a diagram and show mathematically how your container design provides effective use of the materials and maximizes the shipping volume of the M&Ms.

**Standards:** Your container proposal should: (a) provide cost-effective use of the given materials, (b) maximize shipping volume of bulk quantities of M&Ms, and (c) be safe to transport. Your models must make the mathematical case.

**Alignment: The Logic**

What do the understandings imply for assessment?

<table>
<thead>
<tr>
<th>Stage 1</th>
<th>Stage 2</th>
<th>Stage 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>If the desired result is for learners to...</strong></td>
<td><strong>Then, you need evidence of the student’s ability to...</strong></td>
<td><strong>So, the assessments need to include some things like...</strong></td>
</tr>
<tr>
<td>Understand that:</td>
<td>APPLY:</td>
<td></td>
</tr>
<tr>
<td>And thoughtfully consider the questions...</td>
<td>EXPLAIN:</td>
<td></td>
</tr>
</tbody>
</table>

*Understanding by Design Professional Development Workbook page 142*
Georgia will lead the nation in improving student achievement.
Steps in Designing a Rubric

1. Determine the focus of your assessment.
   • What is the task?
   • What significant knowledge, skills, and processes do you wish the students to demonstrate?

2. Determine how many categories are necessary to describe the knowledge, skills, and processes associated with the task.
   • What knowledge or specific information is necessary?
   • What are the observable processes?
   • What are the skills?

3. Describe the specific observable actions, processes, attitudes (effort, perseverance, willingness, etc.) that would indicate the attainment of the goal or goals of the performance task.
   • What does a good, adequate, acceptable job look like? (All requirements have been met.)
   • What does a superior job look like? (Requirements have been surpassed.)
   • What does an inadequate job look like? (Some or all requirements are missing.)

4. Determine how many levels of performance are appropriate for the task.
   • Does this task lend itself to a two-level rubric? (Yes, all requirements have been met; and no, all requirements have not been met)
   • Does this task lend itself to a four-level rubric? (No response, Basic, Proficient, Advanced)
   • Does this task lend itself to a five- or six-level rubric? (Rating scale 1-5 or 1-6)

5. Determine the format to communicate the rubric.
   • What kind of chart, graph, or checklist will you use?
### Quality Words for Rubric Design

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Outstanding</th>
<th>Successful</th>
<th>Work in Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vocabulary</td>
<td>Precise</td>
<td>Appropriate</td>
<td>Imprecise, inappropriate</td>
</tr>
<tr>
<td>Conclusion</td>
<td>In-depth</td>
<td>Complete</td>
<td>Incomplete</td>
</tr>
<tr>
<td>Supporting statement</td>
<td>Detailed</td>
<td>Generalized</td>
<td>Superficial</td>
</tr>
<tr>
<td>Examples</td>
<td>Specific</td>
<td>Adequate</td>
<td>Non specific</td>
</tr>
<tr>
<td>Conclusion</td>
<td>Accurate</td>
<td>Correct</td>
<td>Incorrect</td>
</tr>
<tr>
<td>Data</td>
<td>Purposeful</td>
<td>General</td>
<td>Unrelated, random</td>
</tr>
<tr>
<td>Sources</td>
<td>Varied</td>
<td>Few</td>
<td>Lacks variety, none</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Consistently</td>
<td>Most of the time</td>
<td>Rarely, inconsistently</td>
</tr>
<tr>
<td>Reference/style sheet</td>
<td>Precisely adheres</td>
<td>Consistently adheres</td>
<td>Little or no evidence</td>
</tr>
<tr>
<td>Diagrams, charts</td>
<td>Clearly communicates</td>
<td>Communicates</td>
<td>Fails to communicate</td>
</tr>
<tr>
<td>Voice modulation</td>
<td>Varied, enhances</td>
<td>Somewhat varied</td>
<td>Monotone or inaudible</td>
</tr>
<tr>
<td>Works with others</td>
<td>Effectively and consistently</td>
<td>Consistently shows</td>
<td>Rarely, inconsistently</td>
</tr>
<tr>
<td></td>
<td>consistently</td>
<td>respect</td>
<td>Disrespectful</td>
</tr>
<tr>
<td></td>
<td>Highly respectful</td>
<td>Consistently listens</td>
<td>Fails to listen</td>
</tr>
<tr>
<td></td>
<td>Effective listener</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhibition, product</td>
<td>Fully developed and detailed</td>
<td>Complete</td>
<td>Incomplete or unfinished</td>
</tr>
<tr>
<td>Evidence</td>
<td>Authentic, detailed, varied, well documented</td>
<td>Substantial, well</td>
<td>Superficial, not documented</td>
</tr>
<tr>
<td></td>
<td></td>
<td>documented</td>
<td></td>
</tr>
</tbody>
</table>
Rubric Writing Terminology

**Independence**
Words to indicate level of independence
- Independently
- With minimal assistance
- With maximum assistance
- Even with maximum assistance cannot complete task

**Range and Flexibility**
Words to indicate breadth and depth of ability as well as habitual use, isolated demonstrations
- Always, constantly, frequently, again and again
- Consistently, continually
- Occasionally, most of the time, usually
- Seldom, rarely, infrequently
- Never
- Fully developed, detailed, deep, and rich
- Complete, thorough
- Incomplete, unfinished, superficial
- Purposeful or specific
- General
- Basic, unrelated, random, unspecific
- All, some, few, none

**Connections**
Words to show that students can apply skills and make connections across disciplines and contexts
- Transfers
- Adapts
- Applies
- Relates
- Employs
- Accommodates
- Conforms
- Adjusts
- Transforms
- Makes connections

**Conventions**
Words to express tricks of the trade or specific skills specific to the task that a novice might not have
- Precise
- Appropriate
- Imprecise, inappropriate
- Accurate
- Correct
- Incorrect
Holistic and Analytical Rubrics

<table>
<thead>
<tr>
<th>Holistic</th>
<th>Analytical</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Trait 1</td>
</tr>
<tr>
<td>4</td>
<td>Trait 2</td>
</tr>
<tr>
<td>3</td>
<td>Trait 3</td>
</tr>
<tr>
<td>2</td>
<td>Trait 4</td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Holistic**
- **Definition**: One score or rating for the entire product or performance.

- **When to Use**:
  - For a quick snapshot of overall status or achievement
  - When the skill or product to be assessed is simple; when it has only a single dimension

- **Disadvantages**:
  - Two students can get the same score for vastly different reasons
  - Not as good for identifying strengths and weaknesses and planning instruction
  - Not as useful for students to use.

**Analytical**
- **Definition**: Several scores or ratings for a product or performance. Each score represents an important dimension or trait of the performance or product.

- **When to Use**:
  - Planning instruction – show relative strengths and weaknesses.
  - Teaching students the nature of a quality product or performance – they need the details.
  - Detailed feedback to students or parents.
  - For complicated skills, products, or performances, for which several dimensions need to be clear.

- **Disadvantages**:
  - Scoring is slower.
  - Takes longer to learn.
**Design Template for Assessment for a Unit**

What evidence will show that students understand __________________________?

<table>
<thead>
<tr>
<th>Performance Tasks, Projects</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Quizzes, Tests, Academic Prompts</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Other Evidence (e.g., observations, work samples, dialogues)</th>
<th>Student Self-Assessment</th>
</tr>
</thead>
</table>

Design Template for One Assessment Task

What understandings or skills/knowledge will be assessed through this task?

What criteria are implied in the standards and understandings? What qualities must student work demonstrate to signify the standards were met?

Through what authentic performance task will students demonstrate understanding? (Use GRASPS.)

### Using the Grading Process to Motivate Student Achievement

**How Effective Is Our Approach to Grading?**

<table>
<thead>
<tr>
<th>Principal</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Our grading process complements the learning process.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Grades motivate our students to achieve.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Our students understand our grading and evaluation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Grades help us to communicate with students and parents about learners’ mastery of curriculum standards.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. We strive for consistency in our grading scales and how we use them to evaluate student progress.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Grades in our school help us to articulate what students know, do, and understand.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. We are addressing the “zero” issue, minimizing its impact upon student assessment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. We make certain that all students have sufficient practice and rehearsal to ensure they achieve mastery and understanding.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. We model the kinds of behaviors and understandings required for student success on assessments.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. We tie student grades to a variety of assessment tools, including tests, quizzes, reflective assessments, responses to academic prompts, and culminating projects.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Peer Review Checklist

<table>
<thead>
<tr>
<th>Date of Evaluations</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline (Date: __________)</td>
<td>Expectations for student success are evident from teacher work and actions...</td>
</tr>
<tr>
<td>During (Date: __________)</td>
<td>Teacher work and dialogue reflect high expectations</td>
</tr>
<tr>
<td>End (Date: __________)</td>
<td>Teacher work and dialogue reflect recognition of student success</td>
</tr>
<tr>
<td></td>
<td>Quality assignments are given to students</td>
</tr>
<tr>
<td></td>
<td>Teacher work and classroom actions show a high degree of time on task so students are engaged in learning</td>
</tr>
</tbody>
</table>

| Baseline (Date: __________) | Analysis of student assessment results is done and the information is used... |
| During (Date: __________) | Assessments used clearly focus on clear targets and student learning |
| End (Date: __________) | Good match between assessment used and method used to gather data |
|  | Uses diagnostic, formative and summative assessments appropriately |
|  | Collects evidence in a variety of ways |
|  | Uses evidence to provide feedback and make good instructional decisions |

| Baseline (Date: __________) | Feedback given to students is precise, useful and on-going |
| During (Date: __________) | Feedback is both written and verbal |
| End (Date: __________) | Feedback is clear and useful |
|  | Feedback is fair |
|  | Feedback addresses individual strengths and weaknesses |
|  | Feedback process used helps students become insightful and reflective about their own learning |

<p>| Baseline (Date: __________) | Student progress is based on clear, known and appropriate learning goals |
| During (Date: __________) | Learning goals are clear and known by the student |
| End (Date: __________) | Teacher collects enough quality evidence periodically |
|  | Students are aware of the progress they are making toward the learning targets |
|  | Evidence of student strengths and weaknesses is used to promote further growth |</p>
<table>
<thead>
<tr>
<th>Date of Evaluations</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline (Date:_________)</td>
<td>Classroom climate promotes a good learning environment</td>
</tr>
<tr>
<td>During (Date:____________)</td>
<td>- Environment is supportive and risk-free</td>
</tr>
<tr>
<td>End (Date:______________)</td>
<td>- There is an inviting, print-rich environment</td>
</tr>
<tr>
<td>Comments:</td>
<td>- Students and teachers sense that assessment is about learning and not just for earning grades</td>
</tr>
<tr>
<td></td>
<td>- Teacher organization and management skills promote learning</td>
</tr>
</tbody>
</table>

| Baseline (Date:_________) | Student work assignments are meaningful and relevant  |
| During (Date:____________) | - Students are engaged in their work  |
| End (Date:______________) | - Instructional activities are purposeful and cognitively challenging  |
| Comments: | - Focus on comprehension and higher-order thinking is evident for reading assignments  |
| | - Reading assessments target key categories and are appropriate  |

| Baseline (Date:_________) | Strategies for working with underachieving students are used  |
| During (Date:____________) | - Teacher understands students individually  |
| End (Date:______________) | - Teacher adapts instructional strategies and resources for underachieving students  |
| Comments: | - Students are encouraged and feel that they can achieve  |

| Baseline (Date:_________) | Questioning techniques promote formative learning  |
| During (Date:____________) | - Questions teacher asks are structured to assess student understanding  |
| End (Date:______________) | - Questions encourage higher order thinking  |
| Comments: | - Students are guided in how to answer questions well  |
| | - Student discussion is encouraged  |
| | - Verbal and written questions are used with a purpose  |

From “SERVE—CAR Project at Atkins Intensive Site” via Nancy McMunn
A Glossary of Assessment Terms

1. **Assessment:** collecting formal or informal data related to students’ achievement and/or progress toward learning goals that may be based upon observation and dialogue or upon completion of some form of test or performance-based activity.

2. **Evaluation:** making judgments about the quality of student performance based upon consensus-driven standards and student achievement data.

3. **Content standards:** statements articulating what students are expected to know, be able to do, and/or understand; typically, content standards describe student performance over time (e.g., at the end of a course, grade level, etc.).

4. **Performance standards:** statements articulating specific behaviors students are expected to demonstrate in relationship to content standards at a particular point in their education.

5. **Benchmarks:** assessment activities required of all students at key points in their education to ensure that they are mastering designated performance standards in order to confirm their ongoing achievement of designated content standards (e.g., quarterly writing prompts; annual reading assessments).

6. **Formative vs. summative assessment:** formative assessment can be both formal and informal and occurs throughout a period during a student’s education; summative assessment is cumulative, occurring at key juncture points in a student’s education.

7. **Performance assessment:** assessment activities that require students to complete some form of performance (e.g., writing, observing, presenting) rather than selected-response testing (e.g., fill-in-the-blank, multiple choice, true-false).

8. **Authentic assessment:** performance-based assessment that requires students to demonstrate their ability to perform in situations and settings that parallel “authentic,” real-world professionals (e.g., comparing and contrasting primary source documents in history to draw conclusions about an historical event).

9. **Rubric:** a scoring tool for performance assessment tasks that presents a series of numbered descriptions of student behaviors, organized in rank order; each descriptor summarizes a level of performance and the expected student behaviors for that level.

10. **Feedback-adjustment process:** collecting and analyzing student assessment data to determine individual, sub-group, and full-group levels of achievement, with corresponding adjustments in teaching and learning activities to improve achievement on a continuous basis.
Recommended Readings: Assessment

Note: A more general list of resources for Standards-Based Education is contained in the materials for day one of training.


An excellent resource on using rubrics to support student learning. In this article, Andrade outlines the importance of rubrics by providing insight into their purpose, various uses and effective designs. She makes the point that rubrics can help educators assess student work quickly and efficiently, and help support student grades. When properly designed and used correctly, rubrics can support both the learning and assessment process.


This workbook has been developed as the companion to the third edition textbook. The connections between the concepts in the text and the workbook exercises are well-planned and finely tuned to work together chapter-by-chapter. Each exercise provides direct assistance to teachers on concepts from evaluating grading practices to developing scoring criteria.


This provides a thoughtful framework for how teachers and administrators can reconsider how assessment is working in classrooms. From building the foundation for student involvement through ways to report, the author provides a bridge between what the research shows and what teachers can do in their classrooms. This book is a quick read that is written in teacher-friendly language.


This series of three books for use in middle grades and high school classrooms outlines incredibly practical ways for teachers to involve students in their own assessment. *Setting and Using Criteria* outlines a four-part process for setting criteria, and then shows how to use it to provide descriptive feedback to support learning. *Self-Assessment and Goal-Setting* provides 10 practical self-assessment ideas and five goal-
setting ideas to use with students. *Conferencing and Reporting* focuses on practical ways to involve students in their own communication with others about learning. Additional information about her work in assessment can be found on Anne Davies’ organization’s web site: www.connect2learning.com.


An inspiring book filled with personal examples on how to increase student achievement by helping students understand the assessment process. The authors provide a four-step approach to assist students in learning content and how to understand it for the assessment. They maintain that helping students to understand teacher expectations, performance levels and strategies for reaching course goals will increase student achievement. This resource includes examples of students’ projects and assessment tools.


This book is an easy-to-read and powerful resource book that describes the types of assessments, the strengths and weaknesses of each type, use of kinds of assessment data and the caution to be observed while interpreting assessment results. The book includes discussions on criterion-referenced testing and alternative or authentic testing methodologies. The last chapter demonstrates how to develop an ideal assessment program for your staff. It’s a keeper, just like the authors say.


Grading has the potential for being a valuable learning tool that helps both students and teachers clearly see how they can improve; however, this potential is seldom realized. In this book, Marzano presents viable alternatives to traditional assessment that are grounded in research and practical at the same time.


Marzano et. al. make the case that performance tasks should be developed to help students achieve deep learning and promote active construction of knowledge. This book
contains numerous examples of such performance tasks and also includes several chapters on the construction of rubrics to score performance and offer useful feedback to students.


The second edition of this book offers eight practical guidelines that encourage effective learning, support student success and make grades meaningful. Each guideline defines the purpose, illustrates an example, discusses and analyzes key issues, and summarizes the bottom line. Additional topics include overviews of various grading programs, calculation strategies, the use of report cards and other reporting forms, and insights on future trends in student assessment.


An examination of the undeniable evidence of the importance of using performance assessment as part of an educator’s daily life. This book leads the reader through the steps of creating and using performance assessments to determine students’ achievement throughout the school year. The author advocates using performance assessments that contain real-world scenarios, multiple tasks, and clear, consistent scoring guides.


An important resource for leaders in helping teachers create quality classroom assessments. Stiggins shows how classroom assessment can be used to build student confidence and to increase student performance. He also presents ways to use different assessment methods to reach achievement goals. This is the third edition of Rick Stiggins’ acclaimed textbook, and it continues to build on his practical guidelines for developing quality classroom assessment practices. It offers a wealth of ideas for improving learning through effective assessment and demonstrates how vital and powerful student involvement is in the process. Additional assessment resources produced by Rick Stiggins’ organization, the Assessment Learning Institute (Portland, Oregon), are available and downloadable at no cost on the organization’s web site: www.assessmentinst.com.

A must reading for anyone who needs to know more about the impact assessment has on student achievement. This article sums up the research on classroom assessment with a connection to school improvement. Rick Stiggins, president of Assessment Training Institute, Inc. in Portland, Oregon, and considered by many the country’s most renowned researcher and speaker on assessment, writes in a manner in which school leaders and teachers can learn and use the information. The latter part of this article helps school leaders focus their work on improving classroom assessment FOR learning.


This book focuses on showing teachers how to develop assessments that accurately reflect student achievement AND how to use those assessments to benefit—not merely grade—student learning. It examines the full spectrum of assessment topics, from articulating targets, through developing quality vehicles, to communicating results effectively—with an exceptionally strong focus on integrating assessment with instruction through student involvement. Throughout the material, a variety of hands-on practice activities provide clear guidance on how to construct all types of assessments while explaining what kinds of achievement each type can and cannot assess.

* These two books were included in the set that was sent to each school.
Suggested Web Sites for Assessment

http://cresst96.cse.ucla.edu/resources/justforteachers_set.htm
This Los Angeles Public Schools site includes a PDF file with sample performance tasks.

http://intranet.cps.k12.il.us/Assessments/Ideas_and_Rubrics/ideas_and_rubrics.html
This excellent site by the Chicago Public Schools provides information about rubrics for performance assessments, performance assessment tasks, and assessment resources, as well as a rubric bank.

http://pareonline.net
Practical Assessment, Research and Evaluation (PARE) is an on-line journal supported, in part, by the Department of Measurement, Statistics, and Evaluation at the University of Maryland. Its purpose is to provide education professionals access to refereed articles that can have a positive impact on assessment, research, evaluation, and teaching practice.

http://www.rmcdenver.com/useguide/assessme/online.htm
This site provides links to a variety of websites dealing with creating assessments, assessment strategies and definitions, rubrics, etc.

http://school.discovery.com/schrockguide/assess.html
This site provides an extensive bank of rubrics, rubric builders, graphic organizers, etc.

http://www.techtrekers.com/rubrics.html
This site provides links to a variety of websites for creating rubrics.

www.eduplace.com/graphicorganizer/
This site contains approximately 35 different graphic organizers.

www.ieq.org/Portal/Stud_assess.html
The student assessment section of the IEQ Teacher Resource Portal provides education program planners and teacher development specialists with access to web-based resources such as case studies, descriptions of alternative approaches to primary school assessment, sample test instruments, and classroom strategies that can be used to link assessment and instructional practice.

www.nwrel.org/assessment
This excellent site provides a wealth of materials, including Toolkit98, which contains tutorials “designed to assist classroom teachers to become better assessors of student learning. The primary users of Toolkit98 are intended to be those who have the responsibility to coordinate and facilitate professional development in assessment for teachers.”
PALS is an on-line, standards-based, continually updated resource bank of science performance assessment tasks indexed via the National Science Education Standards (NSES) and various other standards frameworks.

This site provides additional information for users of *Student-Involved Assessment FOR Learning, 4th ed.*, by Richard J. Stiggins.

**Georgia Department of Education—Testing**
- [http://www.doe.k12.ga.us/curriculum/testing/index.asp](http://www.doe.k12.ga.us/curriculum/testing/index.asp)

**Criterion-Referenced Competency Test (CRCT)**
- [http://www.doe.k12.ga.us/curriculum/testing/crct.asp](http://www.doe.k12.ga.us/curriculum/testing/crct.asp)

**End of Course Test (EOCT)**
- [http://www.doe.k12.ga.us/curriculum/testing/eoct.asp](http://www.doe.k12.ga.us/curriculum/testing/eoct.asp)

**National Assessment of Educational Progress (NAEP)**
- [http://www.doe.k12.ga.us/curriculum/testing/naep.asp](http://www.doe.k12.ga.us/curriculum/testing/naep.asp)

**Georgia High School Graduation Test (GHSGT)**
- [http://www.doe.k12.ga.us/curriculum/testing/ghsgt.asp](http://www.doe.k12.ga.us/curriculum/testing/ghsgt.asp)
Follow Up Assignment

1. Before returning for Day 4 of training, please read *What Happens Between Assessments?* This article is available online at:
   [http://pdonline.ascd.org/pd_online/teachbehave/199612el_mctighe.html](http://pdonline.ascd.org/pd_online/teachbehave/199612el_mctighe.html)

2. By the end of Day 3 of training, teachers should have the knowledge and skills necessary to unpack the standards and design assessment plans. Before returning for Days 4 and 5, work with other teachers in your department or your school to plan a unit of instruction all the way through Stages 1 and 2 of the Standards-Based Education process.
Learning Journal

What squares with my thinking?

What’s still rolling around in my mind?

What do I need to change?
Learning Journal

What squares with my thinking?

What's still rolling around in my mind?

What do I need to change?