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An Emerging Process of Assessment in Music Education

Abstract: An effective assessment process can improve student performance, guide instructional decisions, and advocate for a music program. Strategies include designing and administering reliable and valid measures of student learning and using assessments to enhance feedback, longitudinal documentation of assessment results for accountability, and a transparency of assessment processes and findings for increased advocacy. An emerging process of assessment is inherent through the Model Cornerstone Assessments and contributes to an evolving assessment culture within K–12 music education.

Keywords: assessment, documentation, K–12 music education, Model Cornerstone Assessments

*How you assess
your music students
may affect how well
they learn.*

Assessment is an action or instance of making judgment¹ about intended learning, such as a test of knowledge or skill. It's often considered a "process of gathering and discussing information from multiple and diverse sources in order to develop a deep understanding of what students know, understand, and can do with their knowledge as a result of their educational experiences."² The assessment process can be understood as students demonstrating what they can do and how they apply what they have learned, therefore providing teachers with information

that allows for enhancement of instruction.³ Although not always reflected in practice, school music programs should be designed to develop musical knowledge, skills, competencies, and **dispositions** sufficient for a lifetime of making music. As a result, music educators can use data collected from assessment processes to share the progress of students with parents, advocate to administrators for resources allotted to music education, and collaborate among faculty to guide curricular decisions for program improvement. The following article defines emerging understandings of assessment

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Note: All bolded terms in this article are defined in the Glossary near the end.



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and illustrates an assessment process throughout instruction that documents and measures student learning across a range of expectations and informs music instruction.

An Emerging Paradigm

In addition to helping students become aware of their progress, assessment is used for improvement and accountability.⁴ Schools currently recognize assessment as monitoring and documenting student improvement via evidence gathered. Assessment should illustrate how well students are demonstrating intended learning outcomes. School music teachers use a variety of assessments to identify the extent of student learning. Teachers also use this information to modify pedagogical approaches that could lead to improved student performance or evaluate competency at one point in time. These are often referred to as **formative** or **summative assessments**, respectively. This involves timely, detailed feedback from clearly defined learning expectations and establishes a dialogue between students and teachers regarding the students' progression toward defined expectations. Feedback can motivate further learning and drive improvement.

Using assessment data for accountability is now an expectation of policymakers and administrators; it is used

to demonstrate student learning and teacher effectiveness. Each state uses state or nationally adopted **standards** as a mechanism to provide accountability data in the form of compliance. A limitation, however, is that, as educator Paul Lehman aptly noted, "in the United States, we don't have an educational system; we have 13,809 educational systems."⁵ The 13,809 school districts across the United States are all varied in both the content and delivery of curricula, offering multiple and diverse opportunities to learn musical content across the spectrum of music students. Therefore, equity and inclusion considerations such as the diversity in appropriateness of curriculum, heterogeneity of student bodies and programs, and opportunity to learn, for example, all challenge universal equity regarding expectations of students' music learning. The field of music, then, has a philosophical challenge ahead of itself: Does it focus on using a standards-driven approach to music teaching and learning in a way that fosters the normalization and systematization of student learning? Or, does it focus on using a **standards-aligned** approach to music teaching and learning in a way that fosters autonomy of the music teacher or the music student?

Given the importance that public education places on assessment results, music educators should consider

aligning instruction and assessment with well-defined standards of learning. Standards-aligned assessments are more effective when embedded throughout instruction at points predetermined by the teacher. Assessment data can enable program improvement through the **documentation** of students' learning at prescribed points in the learning sequence. For music educators to integrate assessment into instruction, they need to recognize this emerging paradigm of assessment in music education, recognize its value across a music program, and be familiar with a variety of assessment practices that align best with the instructional processes of their schools and districts. Furthermore, these assessment practices should be flexible enough to accommodate differentiation in instruction.

Defining Assessment in Music

The public at large often conceptualizes assessment as tests, more specifically, as a system of multiple choice, fill-in-the-blank, or other similar response formats proctored with a specified time limit and in a uniform way, resulting in the conception of the test as the only form of assessment. However, assessment is a process that includes a variety of measures, including a broader definition of test. An assessment process includes

tasks through which students demonstrate proficiencies and achievement of learning outcomes. It also serves as a means of gathering assessment evidence for **evaluation** and analysis. Expectations are to be based on standards that define what students should know and be able to do reflecting the key concepts, processes, skills, and traditions in music.⁶ Reflective of backward design,⁷ effective assessment is based on four characteristics: (1) defining the expected learning, (2) determining acceptable evidence of learning by designing tasks that require students to demonstrate necessary skills and cognitive demands, (3) employing a measuring device that differentiates qualities of achievement, and (4) thoughtful analysis and evaluation of the results. An effective assessment process requires collaboration between teachers and students throughout. Assessment discussions reveal areas upon which instructional and curricular adaptations can be implemented to provide a balanced program. Through this process, stakeholders will see the pursuit of instructional improvement and its impact on music programs.

All **assessment tasks** outline a set of behaviors that reflect intended learning and gather information to draw a conclusion about intended learning based on interpretations about those behaviors. Therefore, the outcome of any test used as an assessment is to make an inference about learning that can be exhibited by a set of observed behaviors. These inferences can be related to the scoring process (e.g., labeling the quality of a performance with a score according to expert opinion or rule); a generalization of the score (i.e., a holistic view of the student's overall ability of the set of behaviors being evaluated); an extrapolation of a student's performance into a real-world, authentic context (i.e., vote of confidence of the student's ability to shift from a controlled testing environment to a noncontrolled authentic environment); or some consequential decision based on the score (e.g., What interventions or processes would the student benefit from based on the results of the test?). Furthermore, when assessment tasks closely reflect how learning

occurs in an applied setting, the tasks become **authentic assessment**; they become relative to a meaningful application of learning in a given context.

To define the quality of generalized inferences about groups of students, it is essential that tests (assessment tasks) be **standardized** when used as part of assessment processes. Standardization as a process "involves creating conditions that assure uniformity of the tests with regard to administration, difficulty, clarity in the scoring, and establishing psychometric evidence of the quality of the test."⁸ While both are appropriate measures, scoring a student's musical performance at a solo festival is not equivalent to a student giving a musical performance in the music teacher's office, thus violating the notion of uniformity in administration. A student giving a musical performance from Book 1 versus a student at the same ability **level** giving a musical performance from Suzuki Book 2 violates the notion of uniformity in difficulty. A student being evaluated by a lenient adjudicator versus a student of the same ability level being evaluated by a severe adjudicator violates the notion of uniformity in clarity in scoring. From a psychometric perspective, there must be confidence in the inferences made based on the technical properties of the scores. Therefore, the scoring must have evidence of **validity** and **reliability**, preferably based on the Standards for Educational and Psychological Testing.⁹ Standardization, then, maintains procedural due process of the testing conditions and management of the testing data in the interest of fairness. **Fairness**, as described in the Standards for Educational and Psychological Testing, can be defined as "[r]esponsiveness to individual characteristics and testing contexts so that test scores will yield valid interpretations for intended uses."¹⁰ **Responsiveness** pertains to four important testing categories: (1) test content, (2) test context, (3) test response, and (4) opportunity to learn. Test content addresses whether the content systematically favors or disadvantages some groups over others based on prior knowledge, experiences, level of

interest or motivation, or other variables. Test context examines if aspects of the testing environment systematically affect the performance being evaluated. Test response determines whether responses differ based on perceptions of social desirability, background, or any other nonrelated variables. Opportunity to learn focuses on whether the extent to which individuals have had exposure to instruction or knowledge affects their performance.

Regrettably, *standardization* gets interchanged with the term *standard*, so it comes with a fair amount apprehension and tension when teachers hear the terms *standardize* and *standard*. *Standard* can have one of several meanings. A standard as a learning goal can be defined as a prescribed level of quality or attainment of a set of knowledge, skills, abilities, or dispositions. Standards can be distinguished into two types: **content standards** and **performance standards**. Content standards are "collections of statements that describe specific desired learning outcomes or objectives."¹¹ In particular, content standards qualitatively outline the specific knowledge, skills, and abilities a student is expected to know and be able to do at a desired achievement or experience level. Performance standards "specify what level of performance is required for a test taker to be classified into a given performance quality" (e.g., pass/fail, advanced/proficient/basic).¹² These classifications are organized by one or more empirical cut scores that represent a minimum pass level for each respective category. It becomes additionally challenging for music teachers: They often confuse performance standard to mean a content standard describing music performance outcomes. To clarify, music performance (the act of performing repertoire) is actually a content standard, and the level to which students play musically is a performance standard.

Standard-based education, a current trend in schools of adopting standards, continues to dominate the educational landscape in the United States¹³ since the publication of the book *A Nation*

at Risk.¹⁴ A call for rigorous academic standards emerged from accusations that public schools demonstrated academic laxity under a fragmented curriculum.¹⁵ Standards were written to establish expectations in the form of learning goals within a variety of disciplinary areas addressed in American schools. The National Coalition for Core Arts Standards undertook the task of reforming the current arts standards to better establish expectations for the artistic processes (Create, Perform, Respond, and Connect). As a philosophical tenet, “[t]he central purposes of education standards are to identify the learning that we want for all of our students and to drive improvement in the system that delivers that learning. Standards . . . to ensure success for both educators and students in the real world of the school.”¹⁶ To deviate from the single mind-set of a standards-based approach to teaching, there has to be an alternative to address the variable nature of the music classroom. Designing tasks and assessments that are flexible in multiple contexts are the key to establishing a standards-aligned approach. Task frameworks that allow for flexibility of content and skills through which students demonstrate learning are designed and refined. Frameworks of this type also require scoring devices designed to accurately measure learning according to criteria defined in performance standards. Effectively designed curriculum and accompanying assessments easily reflect familiar domains of Bloom’s taxonomy:¹⁷ the cognitive (knowledge), psychomotor (skills and executive processes), and affective (attitudes, dispositions, and emotional responses). Each generation of educators, and hence the standards they develop, exists within a policy context determined by the needs and pedagogical preferences of current culture.

Adding a dimension to the current standards that had not been addressed before, the 2014 Music Standards included **Model Cornerstone Assessments** (MCAs) that aligned with the criteria of the new Performance Standards. MCAs are curriculum-embedded

assessment tasks and measures designed for music students to apply developmentally appropriate and relevant knowledge and skills while demonstrating learning defined throughout the standards. They are designed to engage students in tasks authentic to a school’s curriculum and honor the intent of the Performance Standards. However, MCAs cannot only be used to collect assessment evidence, they embody valuable learning goals and accomplishments of students within the teachers’ curricula and can be adjusted to fit any context. These assessments also provide a foundation for teachers to collect and evaluate student work that illustrates the nature and quality of student achievement with increasing sophistication across grades as envisioned in the standards.

Considerations of curriculum and assessment should be focused on preparing students for future involvement with the content beyond their attendance in the school setting or attendance on campus. The MCAs provide a framework into which teachers integrate their own curriculum content to match the unique goals of any traditional or specialized music classes while using common learning expectations of processes and **rubrics**. When validity and reliability are established, the necessity for external evaluation beyond the classroom teacher is greatly reduced. If administered with integrity by practicing teachers, assessment rubrics like those provided in the MCAs can reliably illustrate student learning related to the current music standards as long as it is clearly understood that additional assessments of knowledge, technical proficiencies, and musical skills that extend beyond the defined standards must also be administered.

When embedding standard-aligned assessments within a curriculum, consideration for a school’s culture, context, curriculum, and opportunities to learn are essential to ensure appropriateness and fairness. Respecting the learning needs of students and the autonomy of curricula is necessary to allow students to demonstrate the quality of

their learning in ways that reflect their own understandings and competencies. Effective assessment allows students to demonstrate musical learning using a variety of tasks appropriate for their interests and skills.¹⁸ Among these skills are the use of technology, composing new works, improvising, performing contemporary/pop music, as well as traditional and nontraditional performance, informal music-making, and even entrepreneurial activities. Each component (framework, validity, reliability, assessment, scoring, and fairness) is critical to successfully embedding assessment throughout a school’s curriculum.

Implementing the Process

An effective assessment process in the music classroom has six discernable steps: (1) defining specific outcomes with expectation levels of achievement; (2) designing an assessment task and scoring device; (3) using an enhanced feedback mechanism; (4) longitudinally documenting individual student progress; (5) analyzing the data, improving practices, and **grading**; and (6) communicating assessment findings to stakeholders as a means of accountability and advocacy (see the “Assessment at a Glance” sidebar).

Defining Specific Outcomes

The first step in implementing an effective assessment process is defining what students are to learn and how they will demonstrate these intended outcomes. In contrast to *goals*, which are general, broad, often abstract statements of desired results, *outcomes* are specific and measurable and must reflect the curriculum. They express a benefit or value added that a student can demonstrate upon completion of an academic program or course. In defining learning outcomes, the challenge often experienced is deciding on specific expectations that fit into a sequence of learning. An outcome contains all three of the following elements: (1) what is to be learned (knowledge, skill, attitude), (2) what level of learning is to be achieved

ASSESSMENT AT A GLANCE

- **Specify Learning Outcomes.**
- **Design a valid reliable, and fair assessment.**
- **Collect data from a variety of assessments across a span of time.**
- **Use the data to provide enhanced and specific feedback to your students.**
- **Document data collected to demonstrate growth over a period of time.**
- **Analyze your data to inform future content and instruction.**
- **Use your analysis and documentation to evaluate your student and your teaching practices.**
- **Use results to advocate for establishment, expansion, or enhancement of a music program.**

(criteria, standard), and (3) under what conditions the learning is to be demonstrated (environment, support, etc.). Outcomes are most often defined by developmentally appropriate expectations of the curricular goals, performance standards from state or national standards, or instructor values. They must be translated into language of measurable and observable behaviors.

Assessment Tasks/Scoring Devices

After defining clear learning outcomes and before planning instruction, it is important to confirm how students are to demonstrate the learning defined in the outcome. Assessment tasks should allow students to apply their learning in ways that represent their own understanding and skills in addition to pre-designed expectations of the instructor and program. Accompanying these tasks should be a scoring device to aid in the documenting of student progress during the assessment process. Confirming the reliability and validity of these measures is often difficult for music educators. There are many resources to consult when developing an effective assessment process (see the Resources sidebar); however, all valid and reliable measures consist of carefully designed

criteria and levels. *Criteria* are the specific components of the task that will be observed. *Levels* specifically define the extent to which students demonstrate each stated **criterion**. In other words, an effective assessment focuses on what students do and how well they can do them and has the capability to measure qualities of learning.

Feedback

Assessments embedded within instruction are useful to enhance student

learning as well as guide instructional improvement. Employing rubrics to assess learning allows teachers the opportunity to provide feedback specific to defined criteria while collecting multiple data points to establish a thorough documentation of student learning. When administered over time, data from scoring rubrics essentially provide a mechanism to provide guided feedback from which students and teachers can monitor growth and learning. Rubrics can simultaneously act as a means of instruction through students being part of developing the scoring criteria and dimensions, student-led feedback sessions, and peer and self-assessment activities integrated into class meetings or rehearsals. These strategies can have a profound impact on the quality of learning that students demonstrate through assessments, and they can be useful to document content learning. Payne found that by using student-created assessments, students approached the tasks with a deeper level of engagement and produced greater specificity in the feedback provided to peers.¹⁹

Documenting

If learning outcomes are well defined and differentiate qualities of learning pertaining to specific criteria, documenting achievement results is straightforward. Many school districts integrate a **learning management system (LMS)**

SOME ASSESSMENT RESOURCES

- **Teaching for Musical Understanding²⁰**
- **Shaping Sound Musicians²¹**
- **“There’s a SMART way to write management’s goals and objectives”²²**
- **Understanding and developing rubrics²³**
- **Tracking Student Achievement²⁴**
- **Documenting Student Learning²⁵**
- **Understanding By Design²⁶**
- **Assessing Student Outcomes²⁷**

that includes an assessment module that maintains assessment scores per student (e.g., Engrade, Thinkwave, Schoology, LearnBoost, Alma with Google Classroom, Canvas, Blackboard, Edmodo, Desire 2 Learn, Moodle). Sometimes these systems have scoring mechanisms, such as program-designed rubrics, that automate the process of documenting and storing achievement scores. When assessments are created to be compatible with the current LMS, data collection and documentation are most efficient. However, vigilance is necessary to ensure that the tasks are authentic to the outcome and not limited by the LMS.

Documentation of student achievement is more than a score from an assessment measure. One way to document progress beyond the score is through audio or video recordings. With devices becoming increasingly portable, smartphone and tablet technologies are useful in documenting student work. Students can record themselves, complete a **self-assessment** (or peer assessment), and then upload the documents into an LMS or on-site storage system maintaining a record that documents each developmental level of progress. Archiving of student work and outcomes assessment scoring provides a powerful means to longitudinally substantiate progress or expose learning needs for both the teacher and the student as well as establish accountability within the program. Examples of student work can also be used as **exemplars** for illustrating student achievement. Teachers can inform future instructional practices using multiple data point information through the application of rubrics, checklists, tests, self- and peer assessments, scored assignments, or alternative opportunities to demonstrate student learning and guide further learning.

Analysis

Thoughtful analysis of the assessment data is one of the most valuable components of an assessment process. Assessment scores from summative assessments are to be reviewed to identify student achievement and

effectiveness of the current curricular sequence, expose learning needs of students, and guide instructional choices. Individual student scores over time provide a picture of student learning achieved and areas of learning not yet attained. One misconception is that the term *grading* can, or should, be used interchangeably with assessment. These terms are not synonymous. Assessment is the **measurement** and evaluation of a student's performance, whereas grading is the assignment of value (e.g., grade) to that performance or growth demonstrated. Growth is a value assigned by the teacher considering the (1) difference in assessment score from one point to the next, (2) difficulty of the task, (3) initial level of proficiency, (4) learning aptitude of the student, and (5) intended expectation for student in the program context. Value, within the context of student learning, is seldom reflected in a score from a singular assessment rather than a set of multiple, thoughtfully designed and sequenced assessments. Analysis is aided by reliable, valid, and fair scoring devices. Ultimately, grading practices are up to the teacher and should document and reflect student growth. Employing an effective assessment process will provide indicators through continuous data collection to accurately make determinations.

Communication and Advocacy

One benefit of a thorough assessment process is the establishment of a framework of accountability that promotes and supports the quality of a music program to a variety of stakeholders such as students, parents, administration, and the extended educational community. Transparency enables these stakeholders to make informed judgments through which enhanced support can be garnered. However, not all assessment data are intended for external stakeholders; some assessment data can easily be misunderstood in a broader context beyond a classroom or program. But when an assessment process can document qualities of learning in valued outcomes and student learning

is responsibly reported, perceptions of educational value and rigor of programmatic quality can be greatly enhanced. Essentially, the assessment process can provide critical and invaluable information to advocate for the existence or expansion of a music program. Teachers can use findings derived from analyses to provide a strong foundation for accountability in the classroom and justify effective teaching practices. While classroom assessments are not a measure of teaching effectiveness, they can be a strong indicator of successful practices.

This emerging process of assessment is inherent through the recent release of the Model Cornerstone Assessments and contributes to an evolving assessment culture within K–12 music education. Effective assessment practices can improve student performance, guide instructional decisions, and advocate for a music program. Assessing student learning is one of the primary responsibilities of a music educator, an essential component of instruction, and a process that must be embraced by the profession. Understanding of and competency with effective assessment processes ensures student learning at all levels and creates strong and dynamic music programs. Addressing these issues must be accomplished through both professional development opportunities and inclusion in teacher education programs. As a profession, music educators must adapt to this emerging assessment process to allow for increased student learning and greater transparency for all involved.

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"Assessment integrated into instruction can inform both the teacher and the music learner."

(Article continues with Glossary on pp. 43 and 44.)

GLOSSARY

- **Assessment (Process)** – *The collection, analysis, interpretation, and applied response to information about student performance or program effectiveness in order to make educational decisions resulting in continual improvement.*
- **Assessment Task** – *Activity or test designed to measure and evaluate a student's demonstration of attained knowledge, specific skills, or expected dispositions.*
- **Authentic Assessment** – *An assessment task that reflects the way a student thinks and interacts in an environment connecting with belief and experiences within each individual student.*
- **Benchmark** – *a standard or point of reference against which things may be compared or evaluated.*
- **Content Standards** – *collections of statements that describe specific desired learning outcomes or objectives.*
- **Criterion** – *a defined expectation of the standard of performance for a particular task. (plural: criteria)*
- **Dispositions** – *a person's inherent or developed qualities of mind and character.*
- **Documentation** – *The method used to record student achievement through scores and illustrative examples for evaluation and accountability.*
- **Evaluation** – *The collection and use of assessment data to make judgments of student achievement or program effectiveness to make informed educational decisions.*
- **Exemplar** – *a person or thing serving as an excellent model.*
- **Fairness** – *Responsiveness to individual characteristics and testing contexts so that test scores will yield valid interpretations for intended uses.*
- **Formative Assessment** – *Ongoing assessment within an educational program for the purpose of exposing learning needs and guiding improvements.*
- **Grading** – *The assignment of value to that performance or growth demonstrated.*
- **Illustrative Example** – *Student work that serves as a model for meeting a specific set of criteria.*
- **Learning Management System (LMS)** – *a software application for the administration, documentation, tracking, reporting and delivery of educational courses or training programs.*
- **Level** – *A descriptor that describes the knowledge, skill, and/or disposition performance level of students to allow teachers to determine an achievement score.*
- **Measurement** – *The use of systematic methodology to observe musical behaviors in order to represent the magnitude of performance capability, task completion, and concept attainment.*
- **Model Cornerstone Assessments** – *curriculum-embedded assessment tasks and measures designed for music students to apply developmentally appropriate and relevant knowledge and skills while demonstrating learning defined in standards.*
- **Performance Assessment** – *An assessment requires students to demonstrate learning that requires integration of expected knowledge, skills, and/or dispositions.*
- **Performance standards** – *Described level of performance required for a test taker to be classified into a given performance quality.*
- **Portfolio Assessment** – *An analysis of a collection of student work used to demonstrate student achievement in a content area; student progress is determined by reviewing the collected works in light of previously established criteria.*
- **Reliability** – *The consistency of an assessment task or tool to produce similar results over a given amount of time.*
- **Responsiveness** – *the ability of a measure to change over a pre-specified time frame and the extent to which change in a measure relates to corresponding change in a reference.*

GLOSSARY (*continued*)

- **Rubric** – *A set of scoring criteria used to determine the value of a student's performance on assigned tasks; the criteria are written so students are able to learn what must be done to improve their performances in the future.*
- **Self-Assessment** – *Analysis of one's own knowledge, skills, and dispositions.*
- **Standard** – *The content, level, or type of performance expected of students at a particular point in time or stage of development*
- **Standardize** – *To cause an assessment to conform to a standard.*
- **Standards-Aligned** – *A system of instruction, assessment, and documentation focused on students' demonstration of knowledge, skills, and dispositions to a mutually agreed upon set of intended student learning outcomes or expectations as they progress through their education.*
- **Summative Assessment** – *An assessment at the end of an instruction cycle to measure student growth and learning.*
- **Validity** – *The effectiveness of an assessment instrument in measuring what it is supposed to measure; also the appropriate use of assessment data in reporting and analysis.*

* **All definitions were synthesized from multiple sources by the authors.**