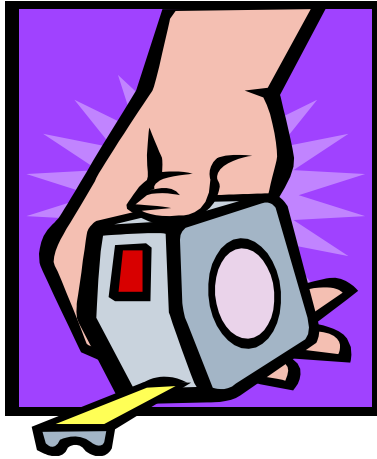


Chapter 15



Course Assessment Basics: Evaluating Your Construction

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With thanks for contributions from:

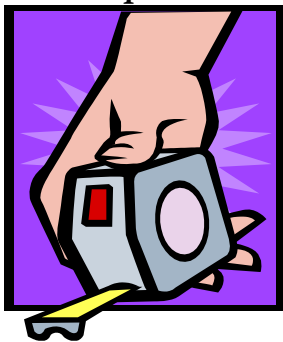
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Chapter 15



Course Assessment Basics: Evaluating Your Construction

First off, due to the hard work of community college faculty across the state, and especially Student Learning Outcome (SLO) coordinators, SLOs and their assessment may already be in place at your campus. If so, your task as basic skills faculty, student services providers and/or administrators is to find out about what has been done in your area. Many schools have written SLOs, but have not yet figured out how to assess them. If that is the case for you, go to the Onward to Assessment portion of this chapter. If SLOs and assessments are already in place in your college, and you are more than familiar with them, but have questions about assessing complex and complicated programs like learning communities or reading and writing labs, go to Chapter 16, of this handbook, Advanced Assessment: Multiple Measures. If you are new to this entire work, wondering just what the x!?\$%& a student learning outcome is anyway, stay right here.

Let's start with a definition, written by one of the primary authors of this chapter and posted in the SLO Workbooks on the Cabrillo College SLO website. "Student learning outcomes (SLOs) describe the:

- knowledge
- skills
- abilities
- attitudes
- beliefs
- opinions
- values

that students have attained by the end of any set of college experiences – classes, occupational programs, degrees and certificates and encounters with Student Services or the Library. The stress is on what students can **DO** with what they have learned, resulting in some sort of product that can be evaluated."

The 2002 Accreditation Standards ask faculty to articulate student learning outcomes for each **course**, each **occupational program** and each **degree** and **certificate** that the school offers. In addition, they must also define them for Student Services and the Library. Then, they must design assessment activities that provide students with an opportunity to demonstrate what they have learned. In case this is all new to you, check out the glossary defining these assessment terms in Appendix 1.

A bit about SLOs versus Course Objectives

“But we’ve always had course objectives in our course outline of record,” you think.
 “What’s the difference between them and an SLO?” Good question!



SLOs for the classroom describe the knowledge, skills, abilities or attitudes that a student can **demonstrate** by the end of your course. They address higher-level thinking skills.

“But wait,” you say. “We’re talking about basic skills courses.”

Yes, but basic skills courses also require students to think critically, to analyze, evaluate and synthesize, as do all higher education classes. The very same thinking skills are put to use, though the students are not grappling with the specific academic discipline at the same level of sophistication as in transfer classes.

The Cabrillo SLO website defines the differences between course objectives and SLOs as the following, including the chart shown below: “When trying to define Student learning outcomes for a course, think of the big picture. SLOs:

- ❑ Describe the broadest goals for the class, ones that require **higher-level** thinking abilities.
- ❑ Require students to **synthesize** many discreet skills or areas of content.
- ❑ Ask them to then **produce** something - papers, projects, portfolios, demonstrations, performances, art works, exams, etc., – that **applies** what they have learned.
- ❑ Require faculty to **evaluate** or **assess** the product to measure a student’s achievement or mastery of the outcomes.

Course objectives are on smaller scale, describing small, discrete skills or “nuts and bolts” that require basic thinking skills. Think of objectives as the building blocks used to produce whatever is assessed to demonstrate mastery of an outcome. Objectives can be practiced and assessed individually, but are usually only a portion of an overall project or application” (Cabrillo College, 2008, p. 41).

	Objectives	Outcomes
Scope	Skills, tools, or content to engage and explain a particular subject	Overarching results - subsequent learning
Target	Details of content coverage and activities which make up a course curriculum.	Higher level thinking skills that integrate the content and activities.
Major Influence	Input – nuts and bolts	Output – Observable evidence (behavior, skill, or discrete useable knowledge) of learning.
Number	Objectives can be numerous, specific, and detailed to direct the daily activities and material.	SLOs are limited in number (5-9) to facilitate modification and improvement of teaching and learning.

Are you still confused? Look at the following outcomes and objectives from a basic skills reading course at Mission College. Note how these fall into the categories in the table above.

Upon completion of Reading 961 (two levels below college-level English) the student will:

1. Utilize vocabulary skills to comprehend assigned readings.
2. Determine and differentiate main ideas and supporting details in assigned readings.
3. Make appropriate inferences in assigned readings

Reading 961 objectives:

1. Apply knowledge of vocabulary commonly used in college reading, writing, and speaking.
2. Identify main idea in assigned readings.
3. Identify supporting details in assigned readings.
4. Identify organizational patterns and relationships of ideas in assigned readings.
5. Utilize graphic organizers (mapping, outlining, summarizing) as a method of organizing ideas in prose reading.
6. Apply contextual clues as a method of improving comprehension through informing vocabulary in assigned readings.
7. Apply critical thinking skills including distinguishing fact from opinion, making inferences, and identifying author's purpose and tone in assigned readings.
8. Apply reading and study techniques to enhance comprehension of college textbooks

Can you see that the objectives are small discrete skills that build to the overall course outcomes?

Here are a few more **OUTCOMES** from other basic skills courses.

Cabrillo College English 255: Basic Writing (two levels below college-level English)

1. Write short paragraphs and essays demonstrating basic sentence-level competency and culminating in a portfolio.
2. Comment on idea and writing strategies in reading assignments.

Bakersfield College Math 50: Modern College Arithmetic and Pre-Algebra

1. Demonstrate the ability to add, subtract, multiply, and divide whole numbers, integers, fractions, mixed numbers, and decimals.
2. Solve Linear Equations by:
 - a) Using the Addition/Subtraction property of equality
 - b) Using the Multiplication/Division property of equality.
 - c) Using both of the above properties together.
3. Translate English sentences to algebraic equations.
4. Simplify mathematical statements using the correct order of operations.
5. Calculate the perimeter and area of rectangles and triangles. Calculate the area and circumference of a circle.
6. Find equivalent forms of numbers (i.e. change fractions to decimals, change percents to fractions, change fractions to percents, change decimals to fractions, change decimals to percents, change percents to decimals, change mixed numbers to improper fractions, change improper fractions to mixed numbers).

7. Round whole numbers and decimals appropriately as directed.
8. Apply the concept of percent to real-world application such as sales tax, discount, and simple interest.

LA Mission College Course SLOs and ESL/English PROGRAM SLOs

ESL, English Program Outcomes

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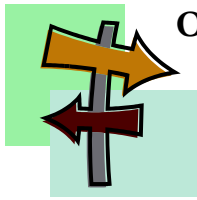
Dr. Louise Barbato

ESL/English Program Outcomes

Access to the full range of curriculum throughout schooling
Maximize ESL/English student learning outcomes
Provide ESL/English students with an optimal chance to reach their full potential as capable and autonomous individuals
Listening and speaking effectively by: <ul style="list-style-type: none"> • Encourage the free exchange of ideas • Reinforce communication skills by teaching the questioning, clarifying and supporting of one's ideas and the ideas of others • Promote sensitivity to choosing language which is appropriate to context
Reading <ul style="list-style-type: none"> • Increase academic vocabulary and reading skills which will improve access to formal college level reading and research • Understand and evaluate academic and literary text • Instill an enthusiasm and interest in reading academic and literary texts
Writing <ul style="list-style-type: none"> • Instill competency by reinforcing knowledge of basic standard English grammar • Promote written literacy which satisfies social and academic needs • Write effectively using the conventions of standard English, a clear focus, appropriate support and logical organization
Research <ul style="list-style-type: none"> • Encourage the use of the library, learning center and computer resources to conduct college-level research • Reinforce the importance of academic honesty and intellectual property rights
Analytical Thinking <ul style="list-style-type: none"> • Encourage the open discussion of topics, free of instructor bias • Encourage students to recognize various sides of an issue and perspectives • Make students aware of the mechanisms of argument and types of false arguments
Exploring the "human condition" in literature: <ul style="list-style-type: none"> • Explore different author's perceptions through readings • Explore different perceptions through classroom discussion • Encourage cultural awareness

Cosumnes River College has an excellent short PowerPoint detailing the process of developing English as a Second Language (ESL) SLOs at

<http://research.crc.losrios.edu/Marchand%20SLO%20Presentation.ppt#1>



Onward to Assessment

Student learning outcomes are only the beginning. An SLO is an empty phrase without some attempt to assess or measure it. It is a building that has never been constructed. Once the walls have been raised and the interior has been finished, someone must walk the floors and make sure that everything works. In the construction industry, that job belongs to a building inspector who certifies that the building is safe for use. In education, it is the faculty's role, whether in the classroom or providing a student service. Assessment is a process where someone asks, "What are the results of this effort? Can anything be improved?" Rather than depend on an outsider, educators must be the ones to design and create assessment processes and determine how to use that data to improve teaching and learning.

So what is assessment?

Defining (and Re-assessing) Assessment: A Second Try

T. A. Angelo, (1995) AAHE Bulletin no.48, p.7.

"Assessment is an ongoing process aimed at understanding and improving student learning.

It involves

- making our expectations explicit and public;
- setting appropriate criteria and high standards for learning quality;
- systematically gathering, analyzing, and interpreting evidence to determine how well performance matches those expectations and standards; and
- using the resulting information to document, explain, and improve performance.

When it is embedded effectively within larger institutional systems, assessment can help us

- focus our collective attention,
- examine our assumptions, and
- create a shared academic culture dedicated to assuring and improving the quality of higher education. "

First, remember WYMIWYG (WHAT YOU MEASURE IS WHAT YOU GET). Every time you assess a skill or knowledge, you are communicating that the information on that test or assignment is the most important information for your students to know. (It is why we get that irritating question in every class, "Will this be on the test?") Indeed, that is the way it should be. We should assess what our students are able to do based on the outcomes we desire and at the level (higher order thinking skills) that we expect. The way you assess your students and the data you collect to improve teaching and learning will help you focus on the important and improvable aspects of your work.

Here's an example of a college that has institutionalized the asking and answering of assessment questions.

City College of San Francisco—a much different, much larger institution—has developed a Web-based Decision Support System. The DSS contains data from 1998 through the present on student enrollment, student demand for classes, departmental productivity, student success as measured by grades, course completion, degrees and certificates, and student characteristics, all of which are available in response to queries from faculty and staff. An instructor of pre-collegiate English might use the system to find out if different student groups—by race or age—are particularly at risk in a key sequence of courses in which he or she is teaching. The department might use the system to see how changes in teaching and curriculum are reflected, or not, in patterns of student success over time. (Is this where the quote begins? I can't tell from this paragraph) Importantly, we heard from CCSF institutional research staff about the need to work directly with faculty—one-on-one, in small groups, and by departments—to help them envision ways to use the information; the promise, that is, lies not only in supplying good information but in cultivating a demand for it. (Hutchings & Shulman, 2007, p. 2)

SO, how do we do this?

The answer is, through carefully using **Formative** and **Summative** Assessments. But what the heck is **Formative Assessment**?



Formative Assessment is a kind of evaluation that is created to help students to improve performance. It has low stakes with regards to grading, but it allows students to practice, rehearse or apply the things most valuable to attaining the outcomes of the course. Often quizzes and homework represent this type of assessment.

This assessment is most important in its role as a diagnostic tool which allows you to

- 1) identify areas of deficiency.
- 2) prescribe alternative learning strategies.
- 3) motivate the student to a deeper learning experience..



Summative Assessment, on the other hand, provides a final opportunity for students to show you what they are able to do with what they've learned. Summative assessment data can be used as a concluding judgment regarding grades and your last evaluation of the pedagogy and content in your course. It's high stakes and scheduled at a time when students have had opportunity for feedback and improvement. The key to making **summative** assessment work is that it needs to be both fair and authentic. "Authentic Assessment" by Wiggins, cited in the resources, provides more details.

Post secondary assessment done right must be rooted in the course and in the classroom, in the individual cells, to speak metaphorically, where the metabolism of learning actually takes place. (Wright, 1999, p. 3)

The second step to improving your work through assessment is to determine the kind of data that will inform your teaching in the most effective ways. Data is a frightening word to many builders and faculty, but here are four important concepts about data that will help you to grab this hot 2x4 by the end: **Direct** versus **Indirect** data and **Qualitative** versus **Quantitative** data.



Direct versus Indirect

We often refer to **Direct** and **Indirect** data. **Direct** assessments evaluate what students can actually do. It is something you can witness with your own eyes: in class, through papers and exams, speeches or presentations. The setting for those assessment activities is usually confined and structured.

Indirect assessments don't get at what students can actually do but ask for opinions about it, either from students themselves or from others who might be able to judge. These assessment activities are often in the form of surveys or self-assessments. When used with students, they tend to focus on the learning process or environment, but the actual learning itself is inferred. The setting for these assessments can be the classroom, but may occur elsewhere so it's not easily contained or structured.



Confused? Try taking this quiz to help you get a deeper understanding of the terms. Evaluate the sources of data below. Select whether they provide direct data or indirect data concerning the issue at hand.

1. Polling information on who people will vote for in an election.
 - a. direct data
 - b. indirect data
2. The actual vote count reported the evening after the national election.
 - a. direct data
 - b. indirect data
3. People's opinion about their favorite make of car.
 - a. direct data
 - b. indirect data
4. The number and make of automobiles actually sold.
 - a. direct data
 - b. indirect data

5. Student learning assessed by essays graded by a rubric.
 - a. direct data
 - b. indirect data
6. Students' opinions about their writing ability.
 - a. direct data
 - b. indirect data
7. A student satisfaction survey on the difficulty of science classes.
 - a. direct data
 - b. indirect data
8. Data on student success in science classes.
 - a. direct data
 - b. indirect data

See Appendix 2 for answers to Quiz on Direct and Indirect Data.

Direct data will indicate the areas of deficiency. In response to this, you need to review your student's pre-requisite knowledge, study skills, your own pedagogy, the methods of assessment used and a variety of other issues related to the teaching and learning process.

In contrast, **indirect** data provides valuable information on perceptions, which are the reality in that person's mind. Responding to indirect data may mean clarifying expectations, changing the way you present things, helping others to see the criteria more clearly, or providing data that changes those perceptions. For example, indirect data from a survey of science and engineering students revealed that the majority of students felt if they joined a study group it was an admission of inadequacy and an indicator that they would not "make the grade." Direct data showed that students involved in study groups had better grades and documented improvement, so these perceptions were wrong. Faculty had to respond to this data by working with student perceptions.

Qualitative versus **Quantitative**

Whether the data is **direct** or **indirect**, it may be information collected as numbers (**Quantitative**) or in another format that does not involve numbers (**Qualitative**). **Qualitative** data are collected as descriptive information, such as in a narrative or portfolio. These types of data, often found in open-ended questions, feedback surveys, or summary reports, are more difficult to compare, reproduce, and generalize. These kind of data are also bulky to store and to report; however, it is often the most valuable and insightful, often providing potential solutions or modifications in the form of feedback.

Its companion, **Quantitative** data are data collected as numerical or statistical values. These data use actual numbers (scores, rates, etc.) to express quantities of a variable. **Qualitative** data, such as opinions, can be displayed as numerical data by using Likert scaled responses which assigns a numerical value to each response (e.g. 5 = strongly agree to 1 = strongly disagree). These data are easy to store and manage; it can be generalized and reproduced, but has limited value due to the

rigidity of the responses and must be carefully constructed to be valid. Many people possess fears that the only data allowed for assessment results is quantitative, but this is not so.

Try another Quiz



1. A faculty member is convinced that field trips are the most effective way to teach geology but it is impacting the budget. Which data would be most convincing in a budget discussion?
 - a. A narrative on the benefits of field trips (qualitative data)
 - b. A collection of student opinions about field trips (indirect data could be qualitative or quantitative)
 - c. An example of student grades related to topics covered on the field trip that compares the scores of students who went on the field trip and those who did not (direct, quantitative)
 - d. A list indicating the number of the other institutions and geology programs that support geology field trips as an integral part of the pedagogy (indirect, quantitative)
 - e. A combination of these data

2. An ESL instructor has discovered from feedback from her students that the most important outcome they are hoping for is proper pronunciation when they speak. Which would be the most useful type of assessment data both for the individual student and for the course outcomes as a whole?
 - a. Direct statistical data gleaned from a multiple choice test about the fundamental rules in proper pronunciation (quantitative).
 - b. A national standardized ESL test (quantitative).
 - c. A student log book created as a result of listening and analyzing recordings of their own speaking (qualitative).
 - d. An interview developed to assess pronunciation and evaluated using a rubric that indicates the major types of errors and a narrative summary of the overall pronunciation expertise (could be qualitative and quantitative).
 - e. A classroom speech evaluated by comments from fellow classmates (qualitative).

3. For the annual program review update in the mathematics department the faculty discussed the results of a word problem assessment embedded in the final exam of each section of each class. The assessment was graded with a rubric that faculty had thoroughly discussed in order to norm or make their judgments consistent. What kind of data would be most useful in the departmental annual report using this assessment?
 - a. Individual scores of every single student (direct, quantitative data).
 - b. Aggregated (combined data) for all the students in each type of course (direct, quantitative data).




- c A narrative report about what the department’s learned after analyzing the results (qualitative data).
 - d A look at the scores achieved by different student populations (quantitative data).
 - e The average score of each faculty member’s class section (quantitative data).
4. Reading faculty hypothesize that students are less likely to sign up for reading classes in the academic development department than they are to sign into linked reading courses attached to General Education courses (learning communities) where the texts in the course serve as the reading text. What type of data would help explore the validity of this hypothesis?
- a A survey asking students whether they would prefer to sign up for a learning community or a reading class (indirect data could be qualitative or quantitative).
 - b Database information showing the number of students with placement test scores below collegiate level (quantitative data).
 - c A comparison of student grades in General Education courses and their reading placement test results (quantitative data).
 - d A narrative created from focus groups of students discussing reading problems (qualitative data).
 - e An analysis of the number of students at another institution that has both linked reading classes and Academic Development reading classes.
5. A faculty member is trying to improve her classroom presentation methods. Which would provide the best feedback?
- a. A questionnaire with (Likert-scaled) student responses providing options to select a. this method is helpful, b. this method is not helpful or c. this method confuses me. (indirect, quantitative data)
 - b. A demonstration of a method followed by open-ended discussion and feedback from the students. (indirect, qualitative data)
 - c. A self evaluation by the faculty member listing the pros and cons of each method (indirect, qualitative)
 - d. A review of the student test results directly related to that presentation method (direct, quantitative)
 - e. A combination of the above

See Appendix 3 for answers to Quiz #2.

Developing or using these assessment techniques does not have to be burdensome. There are many really useful techniques for diverse disciplines available online and in highly recognized resources. One of these resources that has revolutionized teaching and learning is Classroom Assessment Techniques by Angelo and Cross. Classroom Assessment Techniques (CATs) are a group of well known and often used formative assessments. CATs are “simple tools for collecting data on student learning in order to improve it” (Angelo & Cross, 1993, p. 26). CATs are short, flexible, classroom techniques that provide rapid, informative feedback to improve classroom dynamics by monitoring learning, from the student’s perspective, throughout the semester. Faculty can use a CATs technique

at any point during a class (beginning, middle or end of a class session). After evaluating the result, you can know what students are getting and can quickly change your teaching plans to fill in gaps or clarify misunderstandings. CATs work best when student responses are anonymous and the results are shared with them at the next class session. Some popular examples are “The Minute Paper,” “One Sentence Summary,” “Chain Notes,” and “Application Cards” (see chart below from the National Teaching and Learning Forum).

You can find more examples and a more detailed explanation of how to use them in *Classroom Assessment Techniques: A Handbook for College Teachers* by Angelo and Cross (1993). For other discipline specific downloadable CATs see <http://www.flaguide.org/cat/cat.php>.

<i>Name:</i>	<i>Description:</i>	<i>What to do with the data:</i>	<i>Time required:</i>
Minute paper [2] 	<p>During the last few minutes of the class period, ask students to answer on a half-sheet of paper: "What is the most important point you learned today?" and, "What point remains least clear to you?" The purpose is to elicit data about students' comprehension of a particular class session.</p>	<p>Review responses and note any useful comments. During the next class periods emphasize the issues illuminated by your students' comments.</p>	<p>Prep: Low In class: Low Analysis: Low</p>
Chain Notes 	<p>Students pass around an envelope on which the teacher has written one question about the class. When the envelope reaches a student he/she spends a moment to respond to the question and then places the response in the envelope.</p>	<p>Go through the student responses and determine the best criteria for categorizing the data with the goal of detecting response patterns. Discussing the patterns of responses with students can lead to better teaching and learning.</p>	<p>Prep: Low In class: Low Analysis: Low</p>
Memory matrix 	<p>Students fill in cells of a two-dimensional diagram for which instructor has provided labels. For example, in a music course, labels might be periods (Baroque, Classical) by countries (Germany, France, Britain); students enter composers in cells to demonstrate their ability to remember and classify key concepts.</p>	<p>Tally the numbers of correct and incorrect responses in each cell. Analyze differences both between and among the cells. Look for patterns among the incorrect responses and decide what might be the cause(s).</p>	<p>Prep: Med In class: Med Analysis: Med</p>

Directed paraphrasing



Ask students to write a layman's "translation" of something they have just learned -- geared to a specified individual or audience -- to assess their ability to comprehend and transfer concepts.

Categorize student responses according to characteristics you feel are important. Analyze the responses both within and across categories, noting ways you could address student needs.

Prep: Low
In class: Med
Analysis: Med

One-sentence summary



Students summarize knowledge of a topic by constructing a single sentence that answers the questions "Who does what to whom, when, where, how, and why?" The purpose is to require students to select only the defining features of an idea.

Evaluate the quality of each summary quickly and holistically. Note whether students have identified the essential concepts of the class topic and their interrelationships. Share your observations with your students.

Prep: Low
In class: Med
Analysis: Med

Exam Evaluations



Select a type of test that you are likely to give more than once or that has a significant impact on student performance. Create a few questions that evaluate the quality of the test. Add these questions to the exam or administer a separate, follow-up evaluation.

Try to distinguish student comments that address the fairness of your grading from those that address the fairness of the test as an assessment instrument. Respond to the general ideas represented by student comments.

Prep: Low
In class: Low
Analysis: Med

Application cards



After teaching about an important theory, principle, or procedure, ask students to write down at least one real-world application for what they have just learned to determine how well they can transfer their learning.

Quickly read once through the applications and categorize them according to their quality. Pick out a broad range of examples and present them to the class.

Prep: Low
In class: Low
Analysis: Med

Student-generated test questions



Allow students to write test questions and model answers for specified topics, in a format consistent with course exams. This will give students the opportunity to evaluate the course topics, reflect on what they understand, and what good test items are.

Make a rough tally of the questions your students propose and the topics that they cover. Evaluate the questions and use the good ones as prompts for discussion. You may also want to revise the questions and use them on the upcoming exam.

Prep: Med
In class: High
Analysis: High

(may be homework)

[2] The Bureau of Evaluative Studies and Testing (BEST) can administer the Minute Paper electronically.

Applying Assessment Basics to Real Life



Do you remember the Reading 961 SLOs from Mission College?

Upon completion, students will:

1. Utilize vocabulary skills to comprehend assigned readings.
2. Determine and differentiate main ideas and supporting details in assigned readings.
3. Make appropriate inferences in assigned readings.

Let us look at the first outcome: **Utilize vocabulary skills to comprehend assigned readings.** This is a skill. How would you assess a student's ability to use vocabulary building strategies? You might:



Give them some reading with new vocabulary and document how they deal with the new vocabulary (a direct measure)



You could have them explain to others how they deal with new vocabulary (an indirect measure)

Use the space below to jot down your thoughts about pros and cons of each method and what might work best for you or for other faculty at your school (Hint: Think about whether or not an indirect measure will give you enough information about how well a student can perform a skill).

Let's look at the second and third outcomes: **Determine and differentiate main ideas and supporting details in assigned readings** and **Make appropriate inferences in assigned readings**. In these outcomes cognitive abilities are being assessed, looking at what students actually know. There are many different ways to assess these outcomes. Here are some possibilities. In response to an assigned reading, students could:



Identify the main idea, supporting details and inferences in three selected paragraphs in a text (a direct measure).



Answer ten questions about the main ideas, supporting details and inferences in the article (a direct measure).



Write about them in a reading log (a direct measure).



Map them (a direct measure).



Debate them, using supporting details from the text (a direct measure).



Have the student describe his or her process of coming to understand the article (an indirect measure).

Again, use the space below to note the pluses and minuses of each assessment method and discuss what might work in a reading class at your college.

Finally, let's look at an outcome from another reading course from Mission College, one that is designed for students in the level below the one we've been discussing (i.e. three levels below college level English). One of the outcomes for Reading 960 reads: **Perceive themselves as growing in reading competence**. This one targets a student's belief or values. Many basic skills classes seek to explore students' self-perceptions. This can be tricky to assess. You have to use **indirect** measures, because this one is about the student's perception of his or her abilities. You could have students:



Describe to someone else in the class how competent they feel about reading.



Complete a survey about their reading abilities and competence at the end of the class.



Write an essay about how they have changed as a reader over the course of the class.



Survey their attitudes about their competency in reading at the beginning and end of the course, comparing the results.

Use the space below to note the merits of each method. Which ones seem the most possible to do, taking the least amount of time for you or your colleagues at your school?



Speaking of time, we **do** expect you to be worrying about it at this point. “Wait a minute,” we hear you say, “Are you telling me that I have to assess every outcome for my class in addition to what I regularly do? I’m too busy! I have a lot of assignments to grade, not to mention an entire semester’s worth of material to cover. What do you want from me?”

But stop and think for a moment. Would you ever construct a building without examining it before you let someone move in? Surely you would want to walk through each room and scrutinize it carefully, perhaps testing the soundness of the walls or floor. In the same way, you **cannot** afford to cover the content of your course without assessing what the students have learned. Even if you did manage to cover everything, meaning a job well done by you, it’s possible that you could discover that your students are not able to **DO** anything with that material. Assessment is the building inspection!



The good news is that we have an effective method that draws on the major assignments you’re already using in your class. This is called **course embedded** assessment. Using this method, you can choose an assignment that you have to grade anyway as an assessment source. Note that the many suggestions for assessments listed on the previous pages are all class assignments. Though you will grade that assignment like you usually do, you’ll also be analyzing the results from a slightly different perspective. What does the performance of your students on this particular assignment tell you about their issues and needs with the material? What can you discover about what they’re learning?

“Okay,” you say, “so why can’t I just use my grades as an assessment?” Good question! But think about our purpose here. A letter grade is a summation of student performance and doesn’t provide you with information about the different parts of the assignment, so you can see where students are grasping the material and where they might be lost. Remember that assessment asks you to formalize what you probably do intuitively each time you grade a set of assignments -- analyzing what you think your students learned and planning for what you need to change to help them improve. The way to grade an assignment so that it can authenticate or confirm that intuitive information is to use a rubric or primary trait scale. If you are unfamiliar with these terms, please see the appendix of Chapter 14 of this handbook for a detailed description of what rubrics are and how to create them.

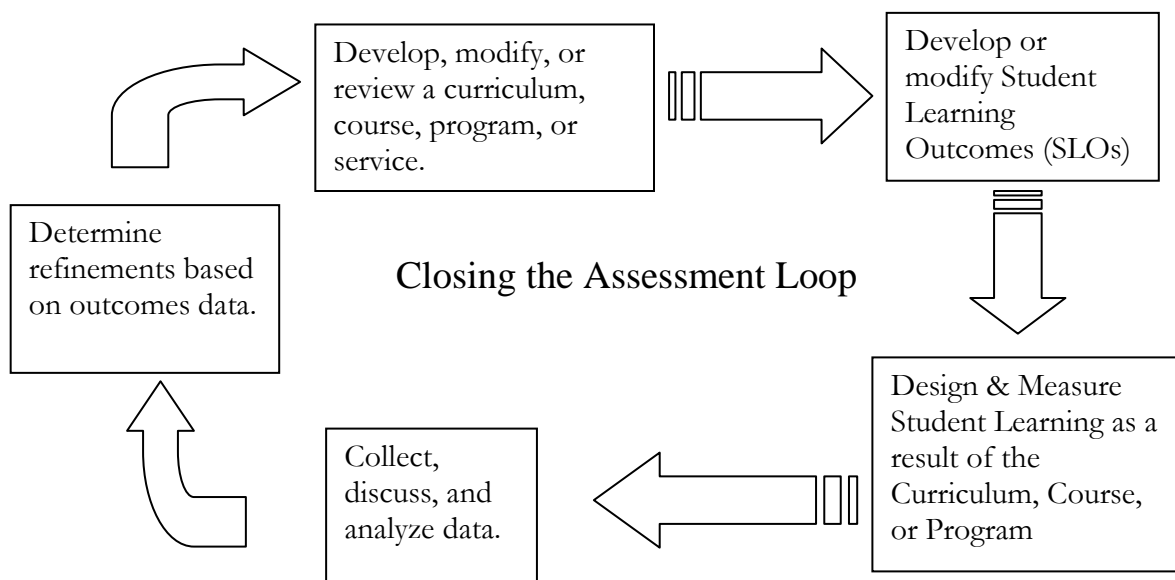
Not every assignment you give to a class can do double duty as an assessment measure. Some quizzes or homework simply test lower level knowledge, the type that is listed in the course objectives. Assignments that you can also use as an assessment must measure higher level thinking skills related to the course outcomes. **SO** examine your assignments and look for the ones that ask students to synthesize and think critically, the ones that target the outcomes for your specific course.



Closing the Loop

The final step in the assessment of student learning outcomes is often called “Closing the Loop.” The term refers to taking the time to look carefully at the data you have collected and analyzing what they suggest you can do to improve teaching and learning. Writing SLOs and assessing them is no good if the final reflective step isn’t completed. The good news is that it can be both the most rewarding and most enjoyable part of the assessment process, especially if it results in dialog with other colleagues about what is going on in your classrooms or department. Some community colleges, ones that have embarked on assessment processes that ask colleagues to share results, report that meetings have become more meaningful. They are actually talking about teaching instead of budget cuts, college business or even parking!

The chart below outlines the process. Note how circular it is. It keeps going, each step feeding into the next. Ideally, assessment never ends. It simply continues in the same way that you continue to informally evaluate what happens in your classes.



Many colleges are tying the assessment loop to program review. It makes great sense to evaluate assessment results and then plan how to improve teaching and learning based on those results. At some colleges across the state, assessment results are now being used to justify budgetary requests. Not only can assessment let you know what is going on in your classes, but it can also provide you with funds to continue your good work.

Let's take a look at how a department can close the loop on assessing a basic skills class. Mission College used this process to assess Reading 961, the course whose SLOs you looked at in the beginning of this chapter. This is only one of many methods a department can choose to close the loop. This is simply an example. Here are the steps they took:

Step One: They wrote SLOs for the class:

1. Utilize vocabulary skills to comprehend assigned readings.
2. Determine and differentiate main ideas and supporting details in assigned readings.

Step Two: They decided on an assessment method to measure SLO #2.

“Students will be given an assignment asking them to read a selection that can be evaluated in terms of one of the outcomes above. This assignment will then be evaluated by the classroom instructor using a rubric designed for this purpose.”

Note that the department chose to use a course-embedded assessment method, using a rubric to “grade” the assignment. All of the faculty teaching the course (both full time and adjunct) participated. The assignments varied; some instructors asked students to answer ten questions about an assigned text while others asked them to write the main point in one sentence and then list supporting details. Still another other asked students to map the reading and then either write or ask questions about it.

Step Three: Each individual instructor analyzed his or her results and recorded it on an **Individual Faculty Results Form** that the department had created for this purpose. The faculty from Mission have graciously given us permission to share some of their forms which are at the end of this chapter. You may find their analysis of the student work interesting.

Step Four: They decided on a process to close the loop where they would meet to share their individual results, and discuss how to improve the course. “The department will then set priorities and create an instructional plan with a timeline. The results/analysis, recommendations, instructional plan and timeline will then be recorded on the Department Analysis Form.” This is also included at the back of this chapter.

Step Five: They put their plans to the test. They discovered four things from doing this assessment process together.

1. “...The need for repetition and explicit instruction for learning to take place.”
2. “...Absences affect student learning, and students who had excessive absences, and/or the occurrence of two holidays in November prior to giving the assessment may have affected the outcomes.”
3. “...Students seem to do well on prescriptive work, but have difficulty creating structure and meaning for themselves.”
4. “Instructors were interested to note that they came to the same conclusions regarding teaching and learning based on 4 different assessments, rubrics and students. Results were remarkably consistent.”

Step Six: They made plans for improvement.

1. “Need to rewrite SLO to separate Main Idea and Supporting Details from Inferences. Cannot measure both in one SLO.”
2. “Make the SLOs explicit so students know their performance expectations and provide ample practice.”
3. “Recognize the need to repeat the Main Idea SLO in various ways: outlining, mapping and summarizing, throughout the semester.”

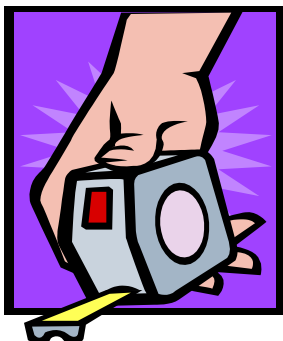
Note that the assessment revealed the need for a third SLO, which was added to the course and included in the list you worked with earlier in the chapter. Revising and improving your own SLOs or assessment methods are key to a successful process. Assessment and SLOs continue to evolve. Going through an entire assessment cycle, where you close the loop, will give you the information you need to make the process better and more workable for your department.

A Few Words of Final Advice

1. Keep it simple. Don't create a process that is so cumbersome and difficult that faculty won't want to do it. Create something that doesn't take a lot of time.
2. Keep it safe. SLO Assessment is not to be used to evaluate individual faculty.
3. Focus on just one or two SLOs at a time. You need not assess EVERY SLO all the time.
4. Start small. You don't have to do everything at once. Complete an entire loop with one course or a series of classes and see what it teaches you. Just do it.
5. The creation of assessment methods and its analysis is a faculty responsibility. Don't give it over to people who are not in your classroom.
6. Complete an assessment cycle. Use the completed cycle to improve the way you approach assessing other outcomes.
7. Make it fun.
8. Keep it sustainable – don't create something that cannot be continued.

Appendix Chapter 15

Course Assessment Basics: Evaluating Your Construction



Appendix 1: Assessment Glossary of Terms

Appendix 2: Answers to Quiz on Direct and Indirect Data

Appendix 3: Answers to Quiz on Qualitative and Quantitative Data

Appendix 4: Mission College Reading Department Assessment Report on Reading 961: Departmental Assessment Results Form; Individual Instructor Report Forms, Sample Assignments and Rubrics

Appendix 5: Long Beach City College Materials for Determining Evaluation Techniques

Appendix 6: Choosing the Right Assessment Tool

Appendix 7: Resources for Chapter 15

Appendix 1

SLO Assessment Glossary

Abilities/Core Competencies/GE Outcomes/Institutional Learning Outcomes. This level of accomplishment relates to the integration of knowledge, skills, and attitudes in complex ways that require multiple elements of learning which are acquired during a student's course of study at an institution. Statements of intended results of student learning experiences across courses, programs, and degrees. Core competencies describe critical, measurable life abilities and provide unifying, overarching purpose for broad spectrum of individual learning experiences.

Assessment (Learning). Learning Assessment refers to a process where methods are used by a faculty member, department, program or institution to generate and collect data for evaluation of processes, courses, and programs with the ultimate purpose of evaluating overall educational quality and improving student learning. This term refers to any method used to gather evidence and evaluate quality and may include both quantitative and qualitative data.

Assessment (Placement). Assessment for placement is a standardized test or process by which a student is properly put into the proper class in a sequence, such as mathematics, English, ESL, or reading. In addition, this process also involves the validation of the content of the standardized test by the appropriate faculty content experts.

Affective Outcomes. Outcomes related to changes in beliefs or development of certain values.

Authentic Assessment/Assessment for Improvement. Assessment that evaluates the student's ability to use their knowledge and to perform tasks that are approximate to those found in the work place or other venues outside of the classroom setting. "Assessment is authentic when we directly examine student performance on worthy intellectual tasks. Traditional assessment, by contract, relies on indirect or proxy 'items'--efficient, simplistic substitutes from which we think valid inferences can be made about the student's performance at those valued challenges"(Wiggins, 1990, page 1).

Assessment for Accountability. Assessment done in which the primary drivers are external, such as legislators or the public.

Bloom's Taxonomy. Six levels arranged in order of increasing complexity or intellectual sophistication:

1. **Knowledge:** Recalling or remembering information without necessarily understanding it. Includes behaviors such as describing, listing, identifying, and labeling.
2. **Comprehension:** Understanding learned material and includes behaviors such as explaining, discussing, and interpreting.
3. **Application:** The ability to put ideas and concepts to work in solving problems. It includes behaviors such as demonstrating, showing, and making use of information.
4. **Analysis:** Breaking down information into its component parts to see interrelationships and ideas. Related behaviors include differentiating, comparing, and categorizing.

5. **Synthesis:** The ability to put parts together to form something original. It involves using creativity to compose or design something new.
6. **Evaluation:** Judging the value of evidence based on definite criteria. Behaviors related to evaluation include: concluding, criticizing, prioritizing, and recommending. (Bloom, 1956)

Classroom assessment techniques. Classroom assessment techniques (CATs) are “simple tools for collecting data on student learning in order to improve it” (Angelo & Cross, 1993, p. 26). CATs are short, flexible, classroom techniques that provide rapid, informative feedback to improve classroom dynamics by monitoring learning, from the student’s perspective, throughout the semester. Data from CATs are evaluated and used to facilitate continuous modifications and improvement in the classroom.

Classroom-based assessment. Classroom-based assessment is the formative and summative evaluation of student learning within a single classroom.

Closing the Loop/Feedback Loop. Using assessment results to improve student learning through collegial dialog informed by the results of the learning outcome assessment. It is part of the continuous cycle of collecting assessment results, evaluating them, using the evaluations to identify actions that will improve student learning, implementing those actions, and then cycling back to collecting assessment results, etc.

Collegiality. Mutually respectful discussion that leads to participative decision making.

Competencies/Exit Skills/Terminal Measurable Objective/Student Learning Outcomes (SLOs). Competencies refer to the specific level of performance that students are expected to master, such as in the arts or CTE courses. Objectives refer to the discrete course content that students need to meet in order to pass the class, whereas SLOs are the overarching behavioral, content, and/or critical thinking skills that a student has learned as a result of the course experience.

Continuous Improvement. An on-going, cyclical process to identify and implement incremental changes to improve the level of student learning.

Course Assessment. This assessment involves evaluating the curriculum as designed, taught, and learned. It involves the collection of data aimed at measuring successful learning in the individual course and improving instruction with a goal to improving learning.

Criterion-based assessments. Assessment evaluated or scored using a set of criteria to appraise or evaluate work. Criterion-referenced evaluation is based on proficiency not subjective measures such as improvement.

Culture of evidence. The term culture of evidence refers to an institutional culture that supports and integrates research, data analysis, evaluation, and planned change as a result of assessment to inform decision-making (Pacheco, 1999). This culture is marked by the generation and valuing of quantitative and qualitative data providing accountability for institutionally defined outcomes (Wright, 1999).

Direct data. Data that measures the exact value. For instance, a mathematics test directly measures a student's proficiency in mathematics. (Contrast with indirect data below.)

Embedded assessment. Embedded assessment occurs within the regular class or curricular activity. Class assignments linked to student learning outcomes through primary trait analysis serve as grading and assessment instruments. Individual questions on exams can be embedded in numerous classes to provide departmental, program, or institutional assessment information. An additional benefit to embedded assessment is immediate feedback on the pedagogy and student needs.

Evidence. Artifacts or objects produced that demonstrate and support conclusions, including data, portfolios showing growth, products, as opposed to intuition, belief, or anecdotes. “Good evidence, then, is obviously related to the questions the college has investigated and it can be replicated, making it reliable. Good evidence is representative of what is, not just an isolated case, and it is information upon which an institution can take action to improve. It is, in short, relevant, verifiable, representative, and actionable” (ACCJC, 2008, p. 10).

Evidence of program and institutional performance. Quantitative or qualitative, direct or indirect data that provides information concerning the extent to which an institution meets the goals it has established and publicized to its stakeholders.

Formative assessment. Formative assessment generates useful feedback for development and improvement. The purpose is to provide an opportunity to perform and receive guidance (such as in class assignments, quizzes, discussion, lab activities, etc.) that will improve or shape a final performance. This stands in contrast to summative assessment where the final result is a verdict and the participant may never receive feedback for improvement such as on a standardized test or licensing exam or a final exam.

General Education Student Learning Outcomes. GE SLOs are the knowledge, skills, and abilities a student is expected to be able to demonstrate following a program of courses designed to provide the student with a common core of knowledge consistent with a liberally educated or literate citizen.

Grades. Grades are a faculty report of a student's performance in a *class* as a whole, but they are not the same as assessment of SLOs in and of themselves. Some colleges have systems in place (e.g., rubrics) so that they can make some assessment of the course. Title 5 states that a student who is able to pass a course with a C or better is able to move onto the next course.

Homegrown or Local assessment. This type of assessment is developed and validated for a specific purpose, course, or function and is usually criterion-referenced to promote validity.

Indirect data. Data that measures a variable related to the intended value. For instance a person's math skills may be indirectly measured through an employer's questionnaire asking about the computational skills of graduating students.

Information competency. The ability to access, analyze, and determine the reliability of information on a given topic.

Institutional Learning Outcomes (ILO/GE Outcomes). These are the knowledge, skills, and abilities a student is expected to leave an institution with as a result of a student's total experience. Because GE Outcomes represent a common core of outcomes for the majority of students transferring or receiving degrees, some but not all, institutions equate these with ILO's. ILOs may differ from GE SLOs in that institutional outcomes may include outcomes relating to institutional effectiveness (degrees, transfers, productivity) in addition to learning outcomes.

Knowledge. Particular areas of disciplinary or professional content that students can recall, relate, and appropriately deploy.

Learning. Particular levels of knowledge, skills, and abilities that a student has attained at the end of engagement in a particular set of collegiate experiences.

Learning Outcomes, competencies, abilities. Learning outcomes are defined in higher education assessment practice as something that happens to an individual student as a result of attendance at a higher education institution. A Learning Outcome is a statement of what a student should understand and be able to do as a result of what he or she has learned in a course or program.

Likert scale. The Likert scale assigns a numerical value to responses in order to quantify subjective data. The responses are usually along a continuum such as - responses of strongly disagree, disagree, agree, or strongly agree- and are assigned values of such as 1-4.

Metacognition. Metacognition is the act of thinking about one's own thinking and regulating one's own learning. It involves critical analysis of how decisions are made and vital material is consciously learned and acted upon.

Means of Assessment. The means of assessment refers to the instrument used to assess student learning as well as when how the instrument will be administered. The following is an illustration: "The Chinese Faculty and the Institutional Research Office collaboratively developed a rubric to assess basic conversation strategies in Chinese. The rubric will be used by instructors to evaluate students in Elementary Mandarin Chinese during an oral interview in the Spring 2009 semester."

Norm-referenced assessment. In norm-referenced assessment an individual's performance is compared to another individual. Individuals are commonly ranked to determine a median or average. This technique addresses overall mastery, but provides little detail about specific skills. This can also be used to track an individual's own improvement over time in a pre-post assessment.

Objectives. Objectives refer to the specific or discrete course content that students need to meet in order to pass the class. Objectives usually relate to lower level skills in the Bloom's taxonomy of learning. Objectives are usually more numerous and create a framework for the overarching Student Learning Outcomes which address synthesizing, evaluating and analyzing many of the objectives.

Pedagogy - Pedagogy is the art and science of how something is taught and how students learn it. Pedagogy includes how the teaching occurs, the approach to teaching and learning, the way the content is delivered and what the students learn as a result of the process. In some cases pedagogy is applied to children and andragogy to adults; but pedagogy is commonly used in reference to any

aspect of teaching and learning in any classroom.

Primary Trait Analysis (PTA) is the process of identifying major traits or characteristics that are expected in student work. After the primary traits are identified, specific criteria with performance standards are defined for each trait.

Program. In Title 5, “Program” is defined as a cohesive set of courses that result in a certificate or degree. However, in Program Review, colleges often define programs to include the specific disciplines within the General Education pattern. It can include student services and administrative units, as well. When assessing outcomes, at a minimum, programs that meet the Title 5 definition must be included. However, how colleges strategize about their learning outcomes might include the larger definition of “program.”

Qualitative data. Data collected as descriptive information, such as a narrative or portfolio. These data often collected in open-ended questions, feedback surveys, or summary reports, are more difficult to compare, reproduce, and generalize. It is bulky to store and to report, however, it is often extremely valuable and insightful data, often providing potential solutions or modifications in the form of feedback.

Quantitative data. Data collected as numerical or statistical values. These data use actual numbers (scores, rates, etc) to express quantities of a variable. Qualitative data, such as opinions, can be displayed as numerical data by using Likert scaled responses which assign a numerical value to each response (e.g. 4 = strongly agree to 1 = strongly disagree). This data is easy to store and manage; it can be generalized and reproduced, but has limited value due to the rigidity of the responses and must be carefully constructed to be valid.

Reliability. Reliability refers to the reproducibility of results over time or a measure of the consistency when an assessment tool is used multiple times. In other words, if the same person took the test five times, the data should be consistent. This refers not only to reproducible results from the same participant, but also to repeated scoring by the same or multiple evaluators. This does not mean that statistical tests for reliability are necessary in the learning outcomes process, but indicates that the assessment is a consistent tool for testing the student’s knowledge, skills or ability.

Rubric. A rubric is a set of criteria used to determine scoring for an assignment, performance, or product. Rubrics may be holistic providing general guidance or analytical assigning specific scoring point values. A rubric often improves the consistency and accuracy of subjective assessments. A rubric can be a set of criteria specifying the characteristics of a learning outcome and the levels of achievement in each characteristic.

Sampling. Sampling is a research method that selects units such as certain groups of students from a specific population of students being studied, so that by examining the sample, the results can be generalized to the population from which they were selected when everyone in the population has an equal chance of being selected (i.e. random).

Skills. The learned capacity to do something.

Standardized assessment. Assessments created, tested, validated, and usually sold by an educational testing company e.g. GRE's, SAT, ACT, ACCUPLACER for broad public usage and data comparison, usually scored normatively.

Student Learning Outcomes (SLO). Student learning outcomes are the specific measurable goals and results that are expected subsequent to a learning experience. These outcomes may involve knowledge (cognitive), skills (behavioral), or attitudes (affective) that provide evidence that learning has occurred as a result of a specified course, program activity, or process. A Student Learning Outcome refers to an overarching goal for a course, program, degree or certificate, Student Services area or the library, one that asks students to synthesize many discreet skills using higher level thinking skills and to produce something that asks them to apply what they've learned. SLOs usually encompass a gathering together of smaller discrete objectives through analysis, evaluation and synthesis into more sophisticated skills and abilities.

Summative assessment. A summative assessment is a final determination of knowledge, skills, and abilities. This could be exemplified by exit or licensing exams, senior recitals, or any final evaluation which is not created to provide feedback for improvement, but is used for final judgments. Some midterm exams may fit in this category if it is the last time the student has an opportunity to be evaluated on specific material.

Validity. An indication that an assessment method accurately measures what it is designed to measure with limited effect from extraneous data or variables. To some extent this must also relate to the integrity of inferences made from the data.

Content Validity. Validity indicates that the assessment is consistent with the outcome and measures the content we have set out to measure. For instance, you go to take your driver's license exam, the test does not have questions about validity.

Appendix 2

Answers to Quiz on Direct and Indirect Data

1. Polling information on who people will vote for in an election.
✓ indirect data
2. The actual vote count reported the evening after the national election.
✓ direct data
3. People's opinion about their favorite make of car.
✓ indirect data
4. The number and make of automobiles actually sold.
✓ direct data
5. Student learning assessed by essays graded by a rubric.
✓ direct data
6. Students' opinions about their writing ability.
✓ indirect data
7. A student satisfaction survey on the difficulty of science classes.
✓ indirect data
8. Data on student success in science classes.
✓ direct data





Appendix 3

Quiz on Quantitative and Qualitative Data

1. A faculty member is convinced that field trips are the most effective way to teach geology but it is impacting the budget. Which data would be most convincing in a budget discussion.
 - a. A narrative on the benefits of field trips(qualitative data)
 - b. A collection of student opinions about field trips (indirect data could be qualitative or quantitative)
 - c. An example of student grades related to topics covered on the field trip that compares the scores of students who went on the field trip and those who did not (direct, quantitative)
 - d. A list indicating the number of the other institutions and geology programs that support geology field trips as an integral part of the pedagogy (indirect, quantitative)
 - e. A combination of these data

2. An ESL instructor has discovered from feedback from her students that the most important outcome they are hoping for is proper pronunciation when they speak. Which would be the most useful type of assessment data both for the individual student and for the course outcomes as a whole?
 - a. Direct statistical data gleaned from a multiple choice test about the fundamental rules in proper pronunciation (quantitative).
 - b. A national standardized ESL test (quantitative).
 - c. A student log book created as a result of listening and analyzing recordings of their own speaking (qualitative).
 - d. An interview developed to assess pronunciation and evaluated using a rubric that indicates the major types of errors and a narrative summary of the overall pronunciation expertise (could be qualitative and quantitative).
 - e. A classroom speech evaluated by comments from fellow classmates (qualitative).

3. For the annual program review update in the mathematics department the faculty discussed the results of a word problem assessment embedded in the final exam of each section of each class. The assessment was graded with a rubric that faculty had thoroughly discussed in order to norm or make their judgments consistent. What kind of data would be most useful in the departmental annual report using this assessment?
 - a. Individual scores of every single student (direct, quantitative data).
 - b. Aggregated (combined data) for all the students in each type of course (direct, quantitative data).
 - c. A narrative report about what the department's learned after analyzing the results (qualitative data).
 - d. A look at the scores achieved by different student populations (quantitative data).
 - e. The average score of each faculty member's class section (quantitative data).

4. Reading faculty hypothesize that students are less likely to sign up for reading classes in the academic development department than they are to sign into linked reading courses attached to General Education courses (learning communities) where the texts in the course serve as the reading text. What type of data would help explore the validity of this hypothesis?
-  A survey asking students whether they would prefer to sign up for a learning community or a reading class (indirect data could be qualitative or quantitative).
 -  Database information showing the number of students with placement test scores below collegiate level (quantitative data).
 - A comparison of student grades in General Education courses and their reading placement test results (quantitative data).
 - A narrative created from focus groups of students discussing reading problems (qualitative data).
 -  An analysis of the number of students at another institution that has both linked reading classes and Academic Development reading classes.
5. A faculty member is trying to improve her classroom presentation methods. Which would provide the best feedback?
- A questionnaire with (Likert-scaled) student responses providing options to select a. this method is helpful, b. this method is not helpful or c. this method confuses me. (indirect, quantitative data)
 - A demonstration of a method followed by open-ended discussion and feedback from the students. (indirect, qualitative data)
 - A self evaluation by the faculty member listing the pros and cons of each method (indirect, qualitative)
 - A review of the student test results directly related to that presentation method (direct, quantitative)
 -  A combination of the above

Appendix 4

Reading 961 Student Learning Outcomes Assessment Results

Fall 2007

Participants:

Ina Gard
Aaron Malchow
Alice Marciel
Dianne McKay

Submitted to Title V Project January 7, 2008

Process Summary

Four members of the reading department participated in a study to validate one of the Student learning outcomes for Reading 961 the mid level developmental reading course at Mission College. The catalog description for this course is:

Reading 961: Effective Reading (Non-Associate Degree Course) 3.0 units
Prerequisites: READ 960, or ESL 970RW, ESL 970G and ESL 970LS, or qualifying score on the placement test.

This developmental course is designed for students who wish to correct or improve basic reading habits and skills including: expanding vocabulary, improving comprehension and attaining an efficient reading rate. The content and objectives of this course will vary somewhat to meet the student's individual needs. Some study skills may be included. May be repeated once for credit. *Credit/No Credit Option.*

The department's assessment plan had several components. The participating faculty met to discuss the project and the course SLOs, did individual work in preparation for additional discussion on the assessment tools and rubrics, conducted their assessment and evaluated the results. The plan follows:

Reading Department Assessment Plan: Reading 961

<i>Outcomes</i>	<p>Upon completion of Reading 961 the student will:</p> <ol style="list-style-type: none"> 1. Utilize vocabulary skills to comprehend assigned readings. 2. Articulate main ideas and make inferences in assigned readings.
<i>Objectives</i>	<ol style="list-style-type: none"> 1. Apply knowledge of vocabulary commonly used in college reading, writing, and speaking. 2. Identify main idea in assigned readings. 3. Identify supporting details in assigned readings. 4. Identify organizational patterns and relationships of ideas in assigned readings. 5. Utilize graphic organizers (mapping, outlining, summarizing) as a method of organizing ideas in prose reading. 6. Apply contextual clues as a method of improving comprehension through informing vocabulary in assigned readings. 7. Apply critical thinking skills including distinguishing fact from opinion, making inferences, and identifying author's purpose and tone in assigned readings. 8. Apply reading and study techniques to enhance comprehension of college textbooks.

<i>Assessment Process</i>	<p>Students will be given an assignment asking them to read a selection that can be evaluated in terms of one of the outcomes above. This assignment will then be evaluated by the classroom instructor using a rubric designed for this purpose. The results (with any analysis) will be recorded on the Individual Faculty Results Form and presented to the department, with recommendations, and a discussion will follow with the goal of generating additional recommendations for the course and for the department. The department will then set priorities and create an instructional plan with a timeline. The results/analysis, recommendations, instructional plan and timeline will then be recorded on the Department Analysis Form.</p> <p>The discussion will take place once or twice a year, possibly on Flex Day. The whole department will be invited, and part-time faculty will be paid to attend with money from the Title V grant (for a limited time).</p>
Assessment Evaluation	

Following is the timeline for training and implementing the plan during Fall 07 semester:

Training (September 25): 1.5 Hours

Selection/Refinement of Assessment Tool and Rubric (On Your Own): 4 Hours

Training (October 16, Workshopping Assessment Tools): 1.5 Hours

Training (November 13, Workshopping Rubrics): 1.5 Hours

Preparing Results/Filling out Forms (On Your Own): 4 Hours

Training (December 4, Reporting out Results/Brainstorming Session): 2 Hours

The results of the SLO validation follow in summary form, along with the individual instructor's rubrics, assignments and rating sheets. One of the immediate results of the study was the need to rewrite the current SLO to separate the measurement of main ideas and supporting details from inferences. We found it too difficult to measure this combination. As a result, the rewritten SLOs for Reading 961 are:

Upon completion of Reading 961 the student will:

- 1. Utilize vocabulary skills to comprehend assigned readings.**
- 2. Determine and differentiate main ideas and supporting details in assigned readings.**
- 3. Make appropriate inferences in assigned readings.**

Student Learning Outcomes Assessment Summary

The individual instructors created their own assignments and rubrics, implemented their assessment and evaluated the results. These results and rubrics can be viewed in the attached appendix. As a result of these assessments and discussion among the faculty, the following summary analysis and plan was created.

Reading Department Analysis

Reading 961 SLO Validation

Fall 2007

Course	Reading 961
Meeting Date	December 4, 2007
Number of Faculty/Staff in Attendance	Four: Aaron Malchow, Ina Gard, Alice Marciel, Dianne McKay
Number of Faculty/Staff Sharing Assessment Results	Same
SLOs Measured	2. Articulate main ideas and make inferences in assigned readings
Assessment Tools	Attached
Assessment Results What student needs and issues were revealed?	<p>Found the need for repetition and explicit instruction for learning to take place.</p> <p>Found that absences affect student learning, and students who had excessive absences, and/or the occurrence of two holidays in November prior to giving the assessment may have affected the outcomes.</p> <p>Found that students seem to do well on prescriptive work, but have difficulty creating structure and meaning for themselves.</p> <p>Instructors were interested to note that they came to the same conclusions regarding teaching and learning based on 4 different assessments, rubrics and students. Results were remarkably consistent.</p>
Next Steps to Improve Student Learning How might student performance be improved?	Stressing explicit instruction and repetition of major themes within the SLOs to improve student performance. The goal will be to make what the student needs to learn and demonstrate very clear and give the students ample opportunity to practice and perfect such learning.

<p>Next Step in the Department to Improve Student Learning</p>	<p>We will focus on the SLOs all semester as the major focus. This serves to give structure to the teaching and learning.</p> <p>It is clear that this SLO needs to be rewritten into two separate SLOs, one for main idea and one for inferences. The two cannot be measured together.</p>
<p>Priorities to Improve Student Learning</p> <p>List the top 3-6 things faculty/staff felt would <u>most</u> improve student learning</p>	<p>Need to rewrite SLO to separate Main Idea and Supporting Details from Inferences. Cannot measure both in one SLO.</p> <p>Make the SLOs explicit so students know their performance expectations and provide ample practice. Recognize the need to repeat the Main Idea SLO in various ways: outlining, mapping and summarizing, throughout the semester.</p>
<p>Implementation</p> <p>List the departmental plans to implement these priorities</p>	<p>By January 2008, rewrite the SLOs to separate Main Idea and supporting details from inference.</p> <p>In Spring 08, teachers will implement changes to teaching and we will reassess in Fall 08.</p> <p>By Spring 08 create SLO overlays to our official course outlines to give to instructors to help focus their instruction around those SLOs</p> <p>In Spring 08 Flex Days, share the results of the SLO validation with all department instructors and discuss how the SLO's can help shape instruction and focus on the need for repetition of practice.</p> <p>In Fall 08, we will select one assessment and rubric and give it to all READ 961 students and evaluate that way.</p>
<p>Timeline for Implementation (Make a timeline for implementation of the top priorities)</p>	<p>See above.</p>

Individual Faculty Assessment Results Form: Aaron Malchow

You can generalize your results or use numbers instead of grades (A= 4 points etc). Remember that this assessment process can't be used to evaluate you personally or specific students. The point is to evaluate how students are mastering the core competencies.

Department:	Reading Department - Aaron Malchow
Course:	Reading 961
SLO:	Articulate main ideas and make inferences in assigned readings.
Assessment Tool/ Assignment: (Attach)	On a sheet of paper, for "Serving in Florida," in <i>Nickel and Dimed</i> , identify the main idea and one supporting detail for: <ol style="list-style-type: none"> 1. the first full paragraph on page 12, 2. the last paragraph on page 27, and 3. the last paragraph on page 30
Rubric Used to Evaluate Assessment tool:(Attach)	See attached page
Number of A grades:	0
Number of B grades:	11
Number of C grades:	5
Number of D grades:	2
Number of F grades:	0
Any factors that may have affected the grades:	Applying the rubric itself.
Thoughts on the assessment results (see page 1, 5c): (You may attach or type into expandable box.)	<p>I looked the student responses to the assignment twice – eyeballing them, following my standard grading process, and then grading them using the rubric. Comparing my standard process to the rubric results, I would have marked at least 3-5 of the B-level responses as A-level work, and the 2 D-level work would have been F-level by my typical standards.</p> <p>I find it interesting that I would not have viewed any work as D-level using my typical grading process, but at this point in the semester, I would hope that my students could accomplish this task. The 2 student responses that rated a D-level on the rubric were</p>

	<p>incomplete, and showed a lack of effort. The rubric does not have a rating that factors in incomplete work, as the bottom most ranking implies that some effort was given, rather than not finishing the assignment. Obviously, as a teacher, I should not feel obligated to follow the rubric's guidelines under those circumstances, but in using the rubric, I wanted to see what it accounted for – and did not account for — rather than make exceptions for it myself.</p> <p>I also noticed that the rubric is actually looking for two skills – not one – in each category. In both categories, it implicitly identifies being able to complete the task “without having the article in front of him/her,” meaning that the rubric is also attempting to measure recall, as well as comprehension. For the assignment, I only wanted to measure comprehension of main ideas and supporting details.</p> <p>While I am not inclined to use this rubric again, I do believe that using rubrics is useful in articulating expectations – both to myself as a teacher and to my students. I will use the experience to help me better determine which rubrics might be most effective for my classroom instruction.</p>
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Rubric Used to Evaluate Assessment tool: Malchow

CATEGORY	4	3	2	1
Identifies important information	Student lists all the main points of the article without having the article in front of him/her.	The student lists all the main points, but uses the article for reference.	The student lists all but one of the main points, using the article for reference. S/he does not highlight any unimportant points.	The student cannot list important information with accuracy.
Identifies details	Student recalls several details for each main point without referring to the article.	Student recalls several details for each main point, but needs to refer to the article, occasionally.	Student is able to locate most of the details when looking at the article.	Student cannot locate details with accuracy

Individual Faculty Assessment Results Form: Ina Gard

You can generalize your results or use numbers instead of grades (A= 4 points etc). Remember that this assessment process can't be used to evaluate you personally or specific students. The point is to evaluate how students are mastering the core competencies.

Department:	Reading - Ina Gard
Course:	Reading 961
SLO:	2. Articulate main ideas and make inferences in assigned readings
Assessment Tool/ Assignment:(Attach)	Students read "Rowing the Bus". When complete students mapped the reading and answered 10 main idea questions
Rubric Used to Evaluate Assessment tool: (Attach)	See Attached
Number of A grades:	2
Number of B grades:	3
Number of C grades:	4
Number of D grades:	2
Number of F grades:	4
Any factors that may have affected the grades:	Holidays on Monday evening (when this class met) means students are not in class for two weeks.
Thoughts on the assessment results (see page 1, 5c): (You may attach or type into expandable box.)	Repetition seems even more important than I would have believed. Continually reviewing main idea with major points seems crucial. Having students map as much as possible appears to help. Level of success on this assessment tool seems to correlate with other work done in the class.

Individual Faculty Assessment Results Form: Alice Marciel

You can generalize your results or use numbers instead of grades (A= 4 points etc.). Remember that this assessment process can't be used to evaluate you personally or specific students. The point is to evaluate how students are mastering the core competencies.

Department:	Reading - Alice Marciel
Course:	Reading 961
SLO:	2. Articulate main ideas and make inferences in assigned readings
Assessment Tool/ Assignment: (Attach)	Students read "Rowing the Bus" article and answered 10 main idea questions and mapped the story. 20 students were assessed.
Rubric Used to Evaluate Assessment tool:(Attach)	See Attached
Number of A grades:	14 students - identified 8 responses
Number of B grades:	2 students - identified 7 responses
Number of C grades:	4 students - identified 4 or 5 responses
Number of D grades:	none
Number of F grades:	none
Any factors that may have affected the grades:	Increased mapping assignments for practice prior to administering the assessment.
Thoughts on the assessment results (see page 1, 5c): (You may attach or type into expandable box.)	

**Main Idea/Supporting Detail Rubric
Used by Alice Marciel and Ina Gard**

Performance Level	Criteria
5 - Superior	Correctly identifies 8 of 10 responses. Demonstrates in-depth understanding of material
4 - Strong	Correctly identifies 6 - 7 of 10 responses. Demonstrates good understanding of the material.
3 - Adequate	Correctly identifies 4 or 5 of 10 responses. Demonstrates sufficient understanding of the material
2 - Limited	Correctly identifies 3 of 10 responses. Demonstrates some understanding of material.
1 - Very Limited	Correctly identifies fewer than 3 of 10 responses. Demonstrates lack of understanding of the material

Individual Faculty Assessment Results Form: Dianne McKay

You can generalize your results or use numbers instead of grades (A= 4 points etc.). Remember that this assessment process can't be used to evaluate you personally or specific students. The point is to evaluate how students are mastering the core competencies.

Department:	Reading - Dianne McKay
Course:	Reading 961
SLO:	2. Articulate main ideas and make inferences in assigned readings
Assessment Tool/ Assignment: (Attach)	Select one chapter from the week's reading in Breaking Through and in one good sentence, write its central point (thesis), then list the details that support this central point. You may use mapping or outlining to do this if it is helpful
Rubric Used to Evaluate Assessment tool: (Attach)	See Attached
Number of A grades:	9
Number of B grades:	1
Number of C grades:	2
Number of D grades:	1
Number of F grades:	0
Any factors that may have affected the grades:	<p>1. I changed this assignment to add the supporting details (map or outline) for this project. This by itself was an improvement to the assignment and the teaching that went with it.</p> <p>2. The students had two previous opportunities to attempt the main ideas and supporting details and improve them. This was week 3 of a 4 week project. Students who received a C & D had had excessive absences and so missed the 2 weeks of learning experiences previous to this work.</p>
Thoughts on the assessment results (see page 1, 5c): (You may attach or type into expandable box.)	<p>1. Based on this experience, I would allow more time in class to specifically peer review the main ideas and details. In the first 2 weeks, I had taken samples of students work and as a group we critiqued and improved on them. I also took examples of good student work and used them as templates for the students.</p>

Dianne McKay's Scoring Rubric for

SLO Assessment of Main Idea

4 (A)	Central Point (main idea) is clear and stated in a complete sentence. All supporting details are relevant to the Central Point.
3 (B)	Central Point contains main idea but may be unclearly stated and/or not in a complete sentence. Most supporting details support the Central Point.
2 (C)	Student attempted to write a Central Point, but it is unclear, and some of the supporting details don't directly support the Central Point.
1 (D)	The statement of Central Point is incorrect given the subject matter, and the details don't support it.
0 (F)	No statement of Central Point is written and no appropriate supporting details are represented.

OUTCOMES for Reading 960 (three levels below College Level English): Upon completion, students will:

1. Apply vocabulary-building strategies to improve their analysis of readings.
2. Demonstrate a literal comprehension of readings, through identification and analysis of main ideas, supporting details and rhetorical patterns of organization and development.
3. Perceive themselves as growing in reading competence.

OBJECTIVES for Reading 960 (three levels below College Level English):

1. Demonstrate sufficient vocabulary and language development to allow for reading and written expression at a pre-collegiate level.
2. Recognize the main idea of a paragraph in pre-collegiate level readings.
3. Recognize supporting details in paragraphs in pre-collegiate level readings.
4. Understand organizational patterns and relationships of ideas in pre-collegiate level readings.
5. Apply word attack skills including phonics, syllabication, and dictionary skills to read and spell words at a pre-collegiate level.
6. Recognize and apply written context to inform vocabulary knowledge at a pre-collegiate level.

Appendix 5

Long Beach City College Materials for Determining Evaluation Techniques

Methods Of Evaluation:

The faculty author will describe general evaluation methodologies (1-2 sentence explanations) as they align with the course's assignments, course content, and student learning outcomes. Course assignments should not be iterated on this page. The department's expectations, standards, or criteria of judgment must be included. Explain the criteria used by the instructor to evaluate the students' work, the nature of the student performance that is being expected as a venue to demonstrate the accomplishment of the learning outcomes and how these evaluations demonstrate that students have met the expected outcomes for this course.

A significant number of the assignments described on the Assignment Page should be evaluated and, thus, identified and explained on this page.

There are three sections to this page.

1. There is a written evaluation section with several prompts.
2. There is a problem-solving evaluation section with several prompts.
3. There is an "other evaluation" section with several prompts.

Please identify the required prompt carefully.

Multiple choice and true-false tests should be explained under the "objective exam" prompt.

Typically a laboratory class would evaluate skills, techniques, and performance. This information should be described under the "skill demonstration" prompt.

The evaluation of higher level critical thinking skills should be emphasized-see Bloom's Taxonomy or a comparable taxonomy.

Please use complete sentences when writing these responses.

A course grade may not be based solely on attendance.

Representative means of evaluation are illustrated below.

Written evaluation, such as:

Essay Exam(s):	Students will write essay exam answers using anatomical terminology and reference terms of anatomical directions to compare and contrast the relationships of organs and organ systems. Take home exams must contain accurate, clear, and coherent thesis statements supported by the appropriate number of paragraphs to sustain the student's argument.
Term or Other Paper(s):	The critique paper is evaluated on how well the student is able to justify his/her opinion of a dance concert through analysis of the choreography, performance, and theatrical elements by using detailed examples to support the thesis. The "socialization report" is graded on the student's inclusion of the required materials, presentation methods, application to the reading, and depth of the self-reflective material. A research term paper is graded based on quality of research, completeness and objectivity of data, reasoned conclusions that demonstrate critical thinking, clarity of organization, quality of written English, and timeliness.
Laboratory Report(s):	In written laboratory reports students must demonstrate the use of critical thinking skills to deduce the proper question, comply with the given instructions, maneuver in, through, and out of the website, synthesize key pieces of information, and compare this information to their own situation.

Written Homework:	Article worksheets are evaluated on the inclusion of the required information as well as the student's synthesis of the concepts presented. Assignments will be evaluated on the completion of the assignment in a timely manner, thorough and correct completion of the assignment based on the instructions given, and signs of effort in the completion of the assignment.
Reading Report(s):	The topics for weekly reading reports will be derived from the textbook, monographs, and/or journal articles and will evaluate the needed analytical skills for the student to develop written theses.

Computational or non-computational problem-solving demonstrations, such as:

Exam(s):	Exams are evaluated on the student's ability to synthesize key concepts and solve appropriate problems as they relate to the content.
Quizzes:	Several short quizzes are given during the semester and will evaluate the skills that the students have developed in utilizing the appropriate equations and diagrams to solve problems at the end of each chapter in the textbook.
Homework Problem(s):	Students will be given several assignments that present a problematic situation to be analyzed and resolved.
Laboratory Report(s):	Project/Lab Reports are evaluated based on completeness and the ability of the student to summarize results and draw conclusions.
Fieldwork:	During an assigned field activity the student will be evaluated as to the demonstration of critical thinking and analysis to the problem being addressed, quality and effort displayed in the performance of the objective, and the new knowledge gained from the experience.

Further methods of evaluation, such as:

Skill demonstrations, such as: class performances(s), fieldwork, performance exam(s):	The student performance criteria are based on the accuracy of the movement shape and correct body alignment or technique, accuracy with the music, interpretation of the music, use of the appropriate energy dynamics, and the projection of confidence and stage presence without stopping. Performance exams will be given to students periodically throughout the term to evaluate safety, technique, and procedures based on industry standards.
Objective examinations, such as: multiple choice, true/false, matching items, completion:	Students will be given multiple-choice, true-false, matching and/or fill-in exam questions. Some questions will test detailed knowledge of the human body and others will require students to think at higher cognitive levels to assess the relationship of tissues, organs, and systems and to correlate these to functions in the body as a whole. Objective exams will be used to evaluate a student's recall of key concepts and correct use of vocabulary/nomenclature.
Portfolio:	The student's portfolio of finished projects will be evaluated on technical (basic use of software) as well as artistic (basic use of color and composition) merit.
Oral Presentation(s):	Term end projects will be graded on the appropriate collection of data, accurate summary of results, and clarity of the presentation to the instructor and class. Students will be evaluated as to their ability to clearly discuss their work product in terms of aesthetics, composition, and technique.
Other (specify):	

Appendix 6 Choosing the Right Assessment Tool

Assessment Tool	Pros	Cons
Multiple Choice Exam	<ul style="list-style-type: none"> ✓ easy to grade ✓ objective 	<ul style="list-style-type: none"> ✓ reduces assessment to multiple choice answers
Licensing Exams	<ul style="list-style-type: none"> ✓ easy to score and compare 	<ul style="list-style-type: none"> ✓ no authentic testing, may outdate
Standardized Cognitive Tests	<ul style="list-style-type: none"> ✓ comparable between students 	
Checklists	<ul style="list-style-type: none"> ✓ very useful for skills or performances ✓ students know exactly what is missing 	<ul style="list-style-type: none"> ✓ can minimize large picture and interrelatedness ✓ evaluation feedback is basically a yes/no - present/absent - without detail
Essay	<ul style="list-style-type: none"> ✓ displays analytical and synthetic thinking well 	<ul style="list-style-type: none"> ✓ time consuming to grade, can be subjective
Case Study	<ul style="list-style-type: none"> ✓ displays analytical and synthetic thinking well ✓ connects other knowledge to topic 	<ul style="list-style-type: none"> ✓ creating the case is time consuming, dependent on student knowledge from multiple areas
Problem Solving	<ul style="list-style-type: none"> ✓ displays analytical and synthetic thinking well ✓ authentic if real world situations are used 	<ul style="list-style-type: none"> ✓ difficult to grade due to multiple methods and potential multiple solutions
Oral Speech	<ul style="list-style-type: none"> ✓ easily graded with rubric ✓ allows other students to see and learn what each student learned ✓ connects general education goals with discipline-specific courses 	<ul style="list-style-type: none"> ✓ difficult for ESL students ✓ stressful for students ✓ takes course time ✓ must fairly grade course content beyond delivery
Debate	<ul style="list-style-type: none"> ✓ provides immediate feedback to the student ✓ reveals thinking and ability to respond based on background knowledge and critical thinking ability 	<ul style="list-style-type: none"> ✓ requires good rubric ✓ more than one evaluator is helpful ✓ difficult for ESL students ✓ stressful for students ✓ takes course time
Product Creation & Special Reports	<ul style="list-style-type: none"> ✓ students can display skills, knowledge, and abilities in a way that is suited to them 	<ul style="list-style-type: none"> ✓ must have clearly defined criteria and evaluative measures ✓ "the look" cannot over-ride the content

Assessment Tool	Pros	Cons
Flowchart or Diagram	<ul style="list-style-type: none"> ✓ displays original synthetic thinking on the part of the student ✓ perhaps the best way to display overall high level thinking and articulation abilities 	<ul style="list-style-type: none"> ✓ more difficult to grade, requiring a checklist or rubric for a variety of different answers ✓ difficult for some students to do on the spot
Portfolios	<ul style="list-style-type: none"> ✓ provides the students with a clear record of their work and growth ✓ best evidence of growth and change over time ✓ students can display skills, knowledge, and abilities in a way that is suited to them promotes self-assessment 	<ul style="list-style-type: none"> ✓ time consuming to grade different content in portfolio makes evaluating difficult and may require training bulky to manage depending on size
Exit Surveys	<ul style="list-style-type: none"> ✓ provides good summative data easy to manage data if Likert-scaled responses are used 	<ul style="list-style-type: none"> ✓ Likert scales limit feedback, open-ended responses are bulky to manage,
Performance	<ul style="list-style-type: none"> ✓ provides best display of skills and abilities ✓ provides excellent opportunity for peer review ✓ students can display skills, knowledge, and abilities in a way that is suited to them 	<ul style="list-style-type: none"> ✓ stressful for students may take course time some students may take the evaluation very hard - evaluative statements must be carefully framed
Capstone project or course	<ul style="list-style-type: none"> ✓ best method to measure growth overtime with regards to a course or program - cumulative 	<ul style="list-style-type: none"> ✓ focus and breadth of assessment are important ✓ understanding all the variables to produce assessment results is also important ✓ may result in additional course requirements ✓ requires coordination and agreement on standards
Team Project	<ul style="list-style-type: none"> ✓ connects general education goals with discipline-specific courses 	<ul style="list-style-type: none"> ✓ must fairly grade individuals as well as team ✓ grading is slightly more complicated ✓ student interaction may be a challenge
Reflective self-assessment essay	<ul style="list-style-type: none"> ✓ provides invaluable ability to evaluate affective growth in students 	<ul style="list-style-type: none"> ✓ must use evidence to support conclusions, not just self-opinionated assessment
Satisfaction and Perception Surveys	<ul style="list-style-type: none"> ✓ provides good indirect data data can be compared longitudinally ✓ can determine outcomes over a long period of time & variables 	<ul style="list-style-type: none"> ✓ respondents may be influenced by factors other than those being considered ✓ watch validity and reliability

Appendix 7

Resources for Chapter 15

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Additional Helpful Resources include:

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