Kansas State University Libraries

New Prairie Press

Academic Chairpersons Conference Proceedings 32nd Academic Chairpersons Conference, Austin, TX

Assessing Student Learning

Dr. Susan Hatfield Winona State University

Follow this and additional works at: https://newprairiepress.org/accp

Part of the Educational Leadership Commons, and the Higher Education Administration Commons

Recommended Citation

Hatfield, Dr. Susan (2015). "Assessing Student Learning," *Academic Chairpersons Conference Proceedings*. https://newprairiepress.org/accp/2015/Plenary/4

This Event is brought to you for free and open access by the Conferences at New Prairie Press. It has been accepted for inclusion in Academic Chairpersons Conference Proceedings by an authorized administrator of New Prairie Press. For more information, please contact cads@k-state.edu.

Assessing Student Learning

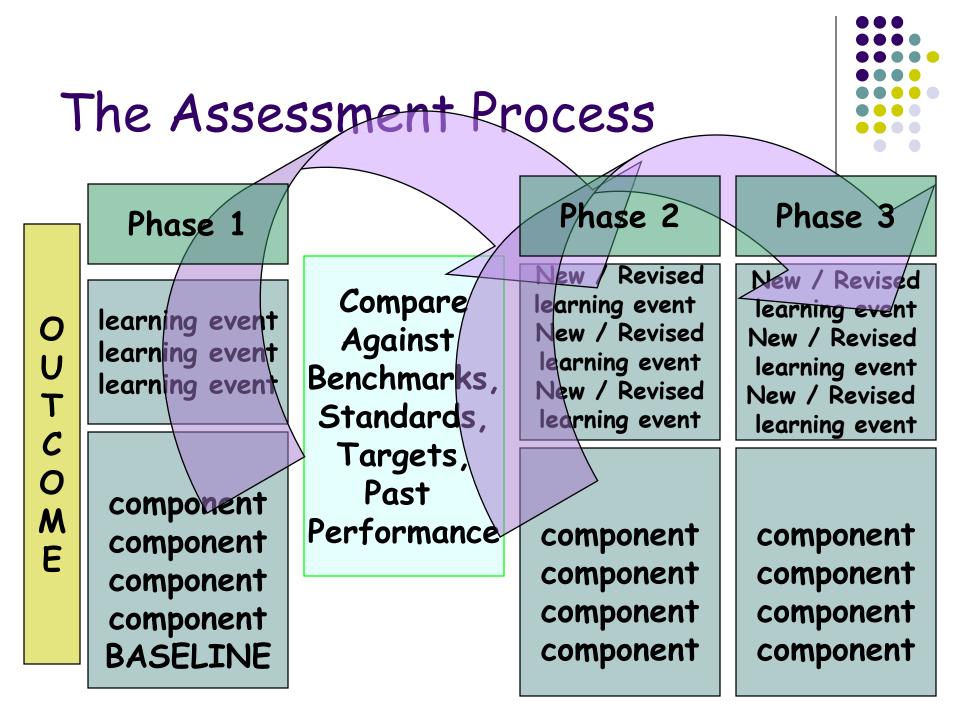
Academic Chairpersons Conference

February 2015 Susan Hatfield Winona State University <u>SHatfield@winona.edu</u>





Think of a course that you teach: What are you doing differently in that course this semester?



....focus the discussion...

Assessment is about student learning

..... Build on what's already happening



Most of your faculty are probably already doing it.

Evaluation

Assessment

Quizzes

Count toward final grade

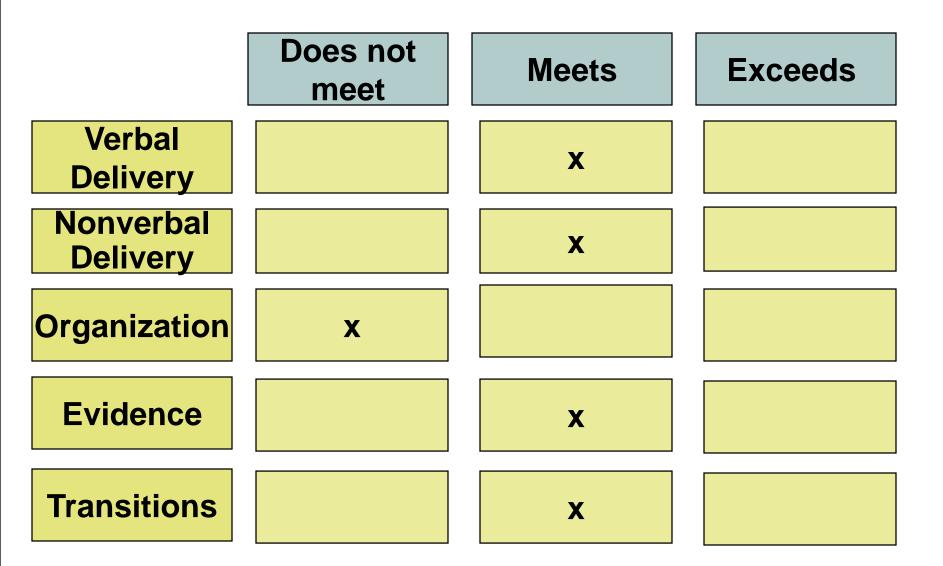
Tests Scored and returned

Used to see if students understand

Scored, tabulated. returned & discussed; adjustments to syllabus



Returned to students with grade



Evaluation

Quizzes

Tests

Rubrics

Assessment

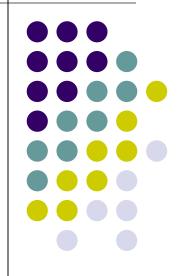
Used to see if Count toward students final grade understand Scored, tabulated. returned & Scored and returned discussed; adjustments to syllabus Returned after being aggregated & Returned to students analyzed; with grade adjustments to syllabus

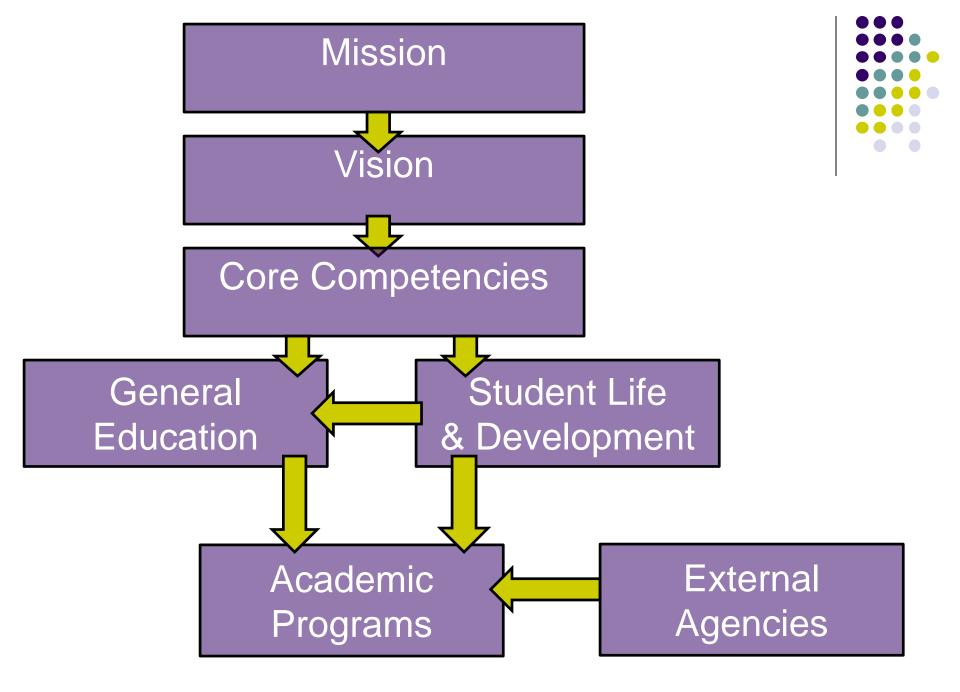
	Does not meet	Meets	Exceeds
Verbal Delivery	14%	81%	5%
Nonverbal Delivery	22%	74%	14%
Organization	14%	79%	7%
Evidence	9%	72%	19%
Transitions	7%	85%	8%

Program Summary

Creating an **Assessment Plan**

1. Identify your Program-level Learning Outcomes







Consider your outcomes carefully:

If you don't care about the question, you won't care about the answer.

Student Learning Outcomes



 Students should be able to critically comprehend, interpret, and evaluate written, visual, and aural material.

PRACTICAL ADVICE:



The more complex the outcome, the harder it will be to assess

PRACTICAL ADVICE:

 Suggested format for learning outcomes:

Students will be able to <<a ction verb>> <<something>>





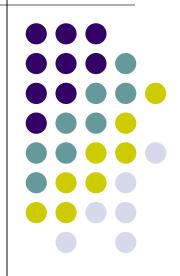
Student Learning Outcomes

- Learner Centered
- Clear
- Measurable
- Public
- Distinctive
- Frame Perceptions
- Cognitively appropriate

CQ	MPREHENSIO		ANALYSIS		EVALUATION
KNOWLEDGE		APPLICATION		SYNTHESIS	
	Associate			Arrange	Appraise
Cite	Classify	Annly	Analyze	Assemble	Assess
Count	Compare	Apply Calculate	Appraise		Choose
Define	Compute	Classify		Collect	
Draw	Contrast	Demonstrate	Calculate	Compose	Compare
Identify		Determine	Categorize	Construct	Criticize
•	Differentiate	Dramatize	Classify	Create	Determine
List	Discuss	Employ	Compare	Design	Estimate
Name	Distinguish	Examine	Debate	Formulate	Evaluate
Point	Estimate	Illustrate	Diagram		Grade
Quote	Explain	Interpret	Differentiate		
Read	Express	Locate		wanaye	Judge
Recite	-	Operate	Distinguish	Organize	Measure
	Extrapolate	Order	Examine	Plan	Rank
Record	Interpolate	Practice	Experiment	Prepare	Rate
Repeat	Locate	Report	Inspect	Prescribe	Recommend
Select	Predict	Restructure	Invontory		Poviso
State	Report	Schedule			
Tabulate	Restate	Sketch		division	course
Tell	Review	Solve		outcomes	s 🗌
		Translate		00000000	ze
Trace	Tell	Use	Test	Write	Test
Underline	Translate	Write			Validate

		OMPREHENSIO		ANALYSIS		EVALUATION
k	NOWLEDGE	Associate	APPLICATION		SYNTHESIS Arrange	Appraise
	Cite	Classify		Analyze	Assemble	Assess
	Count	Compare	Apply	Appraise		Choose
	Define	Compute	Calculate Classify	Calculate	Collect	
	Draw	Contrast	Demonstrate	•••••	Compose	Compare
	Identify	Differentiate	Determine	Categorize	Construct	Criticize
	List	Discuss	Dramatize	Classify	Create	Determine
	Name		Employ	Compare	Design	Estimate
	Point	Distinguish	Examine	Debate	Formulate	Evaluate
<		Estimate	Illustrate	Diagram	Integrate	Grade
	Quote	Explain	Interpret	Differentiate	Manage	Judge
	Read	Express	Locate	Distinguish	Organize	Measure
	Recite	Extrapolate	Operate Order	Examine	Plan	Rank
	Record	Interpolate	Practice	Experiment		Rate
	Repeat	Locate	Report	Inspect	Prescribe	Recommend
Γ		or division	ucture	Inventory	Produce	Revise
	Oppe	er division e / Prograr	dule	Question	Propose	Score
Course / Prog		e / Fiograf	am tch	Separate	Specify	Select
	U	utcomes	slate	Summarize	Synthesize	Standardize
L		Ten	Use	Test	Write	Test
	Underline	Translate	Write			Validate

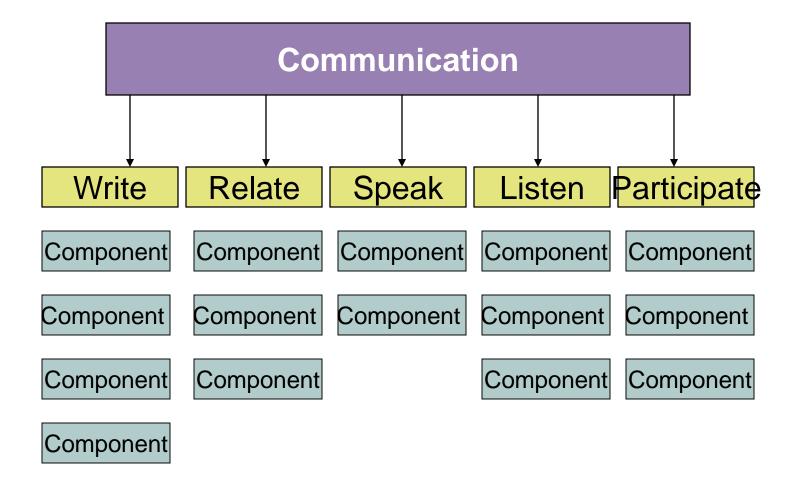
2. Define the Outcomes



Components

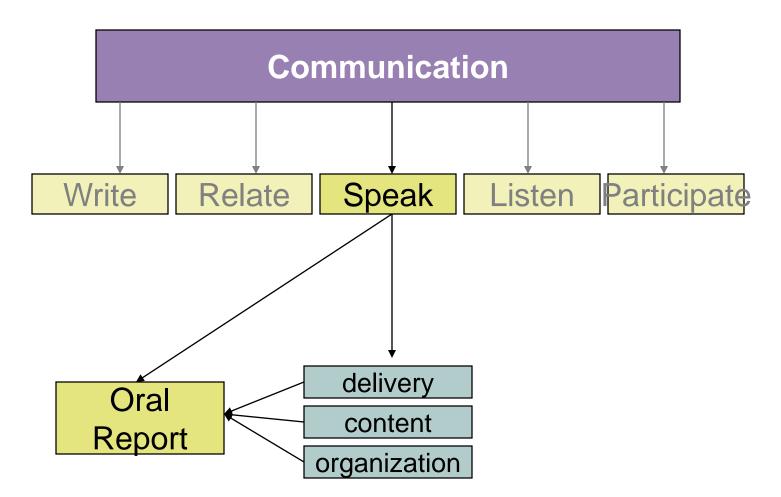
- Define student learning outcomes
- Provide a common language for describing student learning
- Must be *outcome* specific
- Must be shared across faculty
- Number of components will vary by outcome





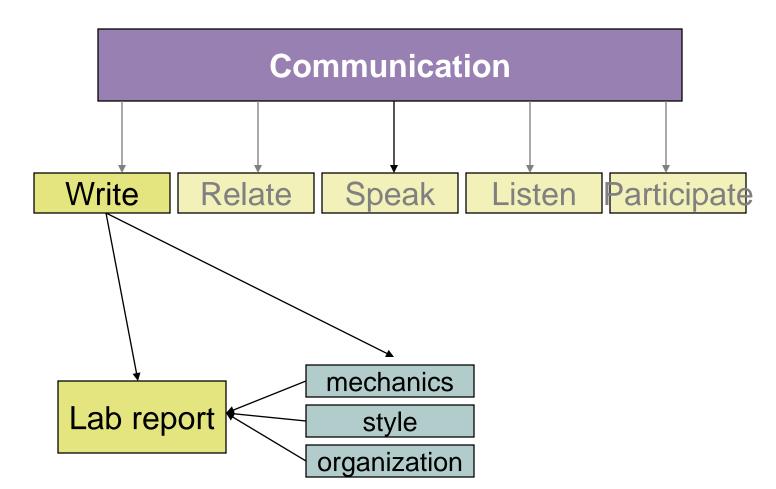
Components





Components



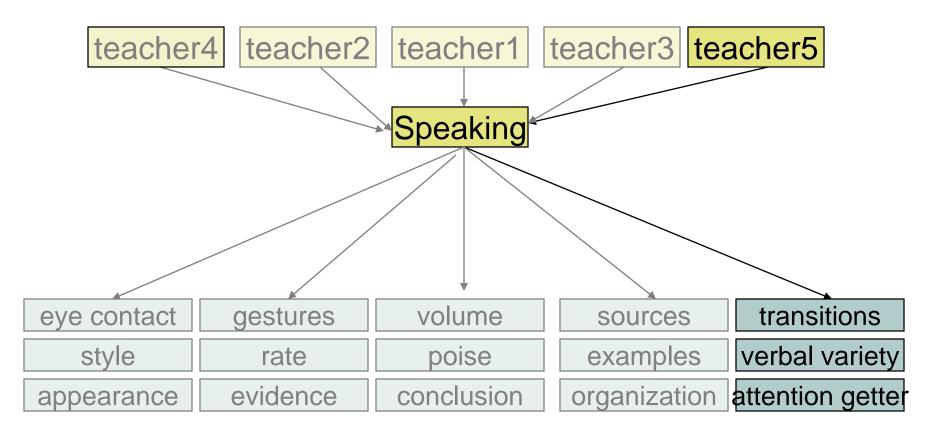


The Reality of Assessing Student Learning Outcomes

Why you need common components

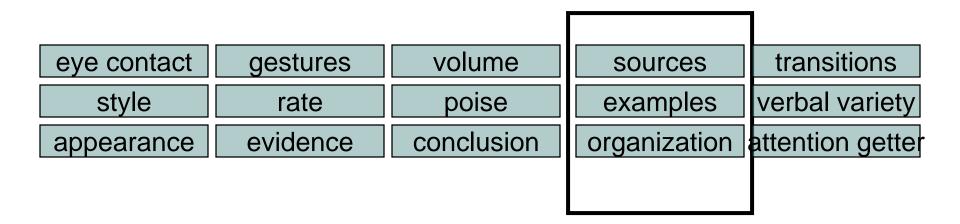




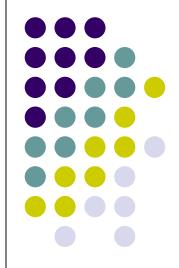




Can our students deliver an effective Public Speech?



Quiz



Example #1



Gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected





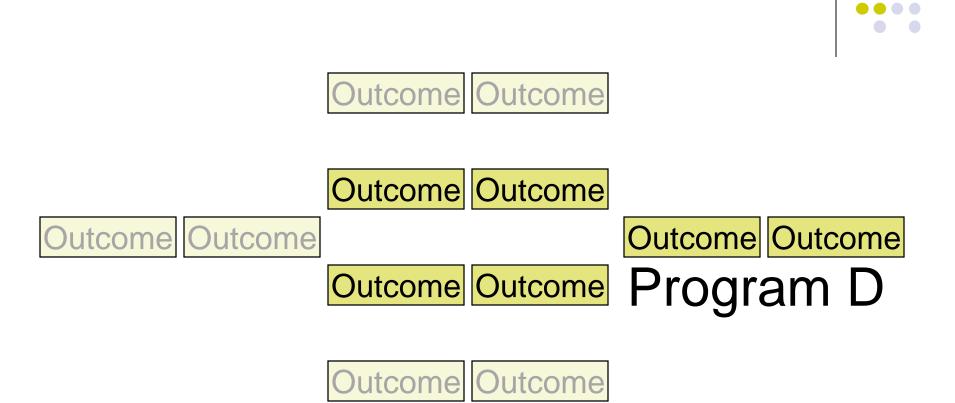
Imagine and seek out a variety of possible goals, assumptions, interpretations, or perspectives which can give alternative meanings or solutions to given situations or problems

Example #3

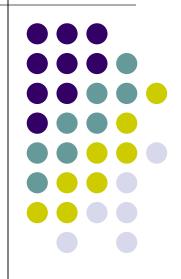


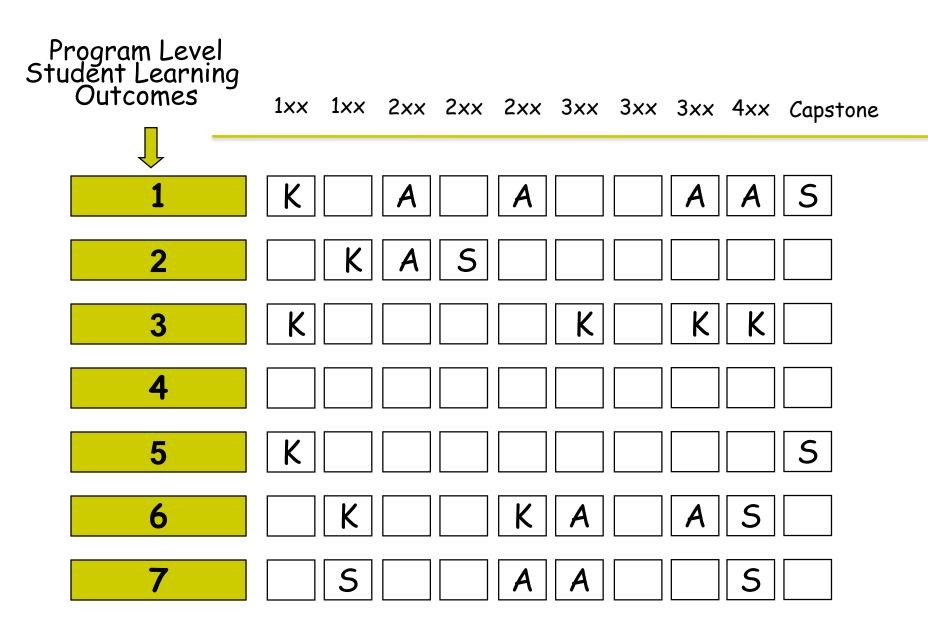
Formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines (one of these experimental components should develop, in greater depth, students' laboratory experience in the collection of data, its statistical and graphical analysis, and an appreciation of its sources of error and uncertainty)

Outcomes can overlap

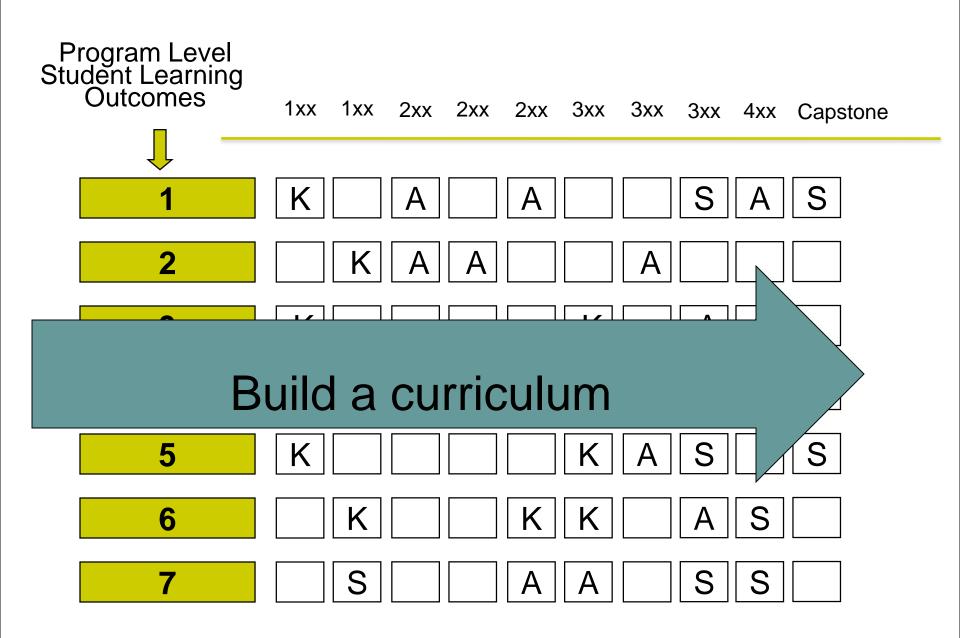


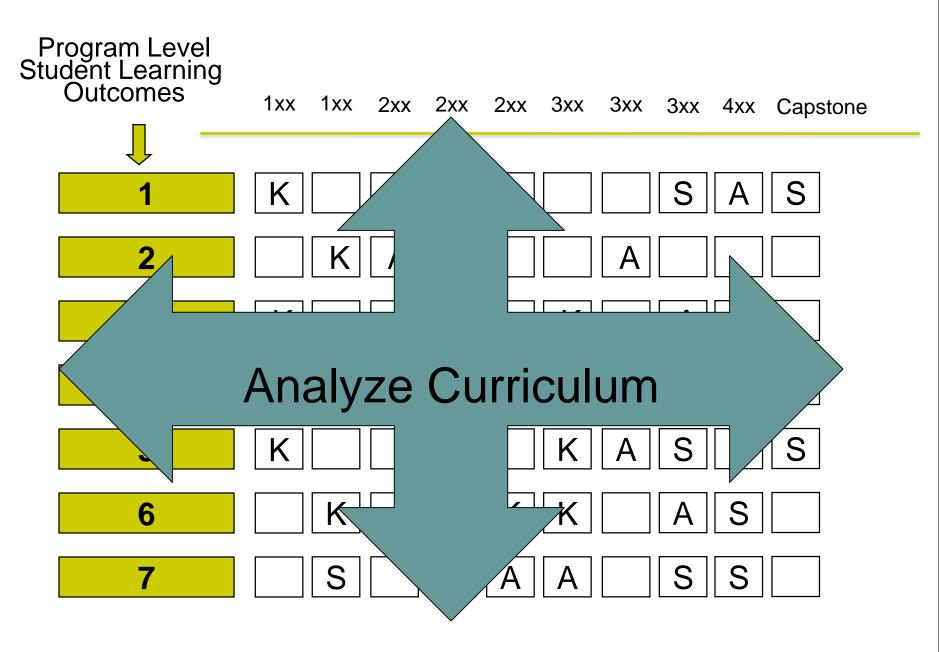
3. Map your outcomes to the curriculum

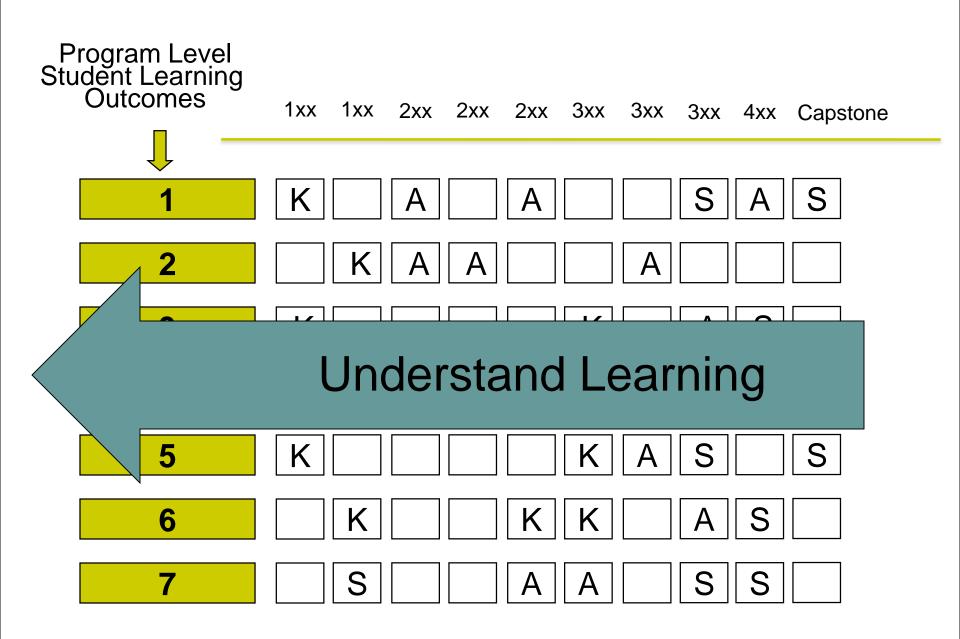




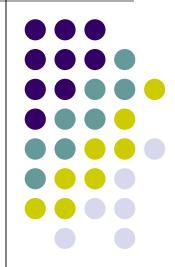
K= Knowledge/Comprehension; A= Application / Analysis; S= Synthesis /Evaluation







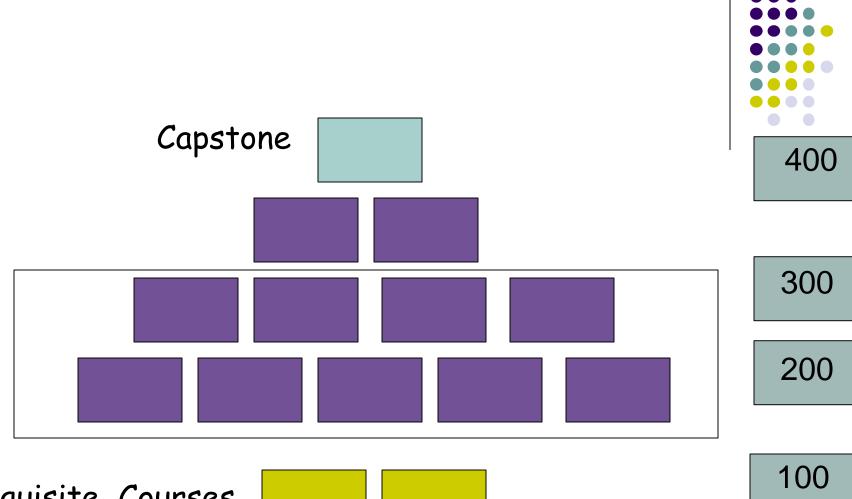
4. Identify your Assessment Points



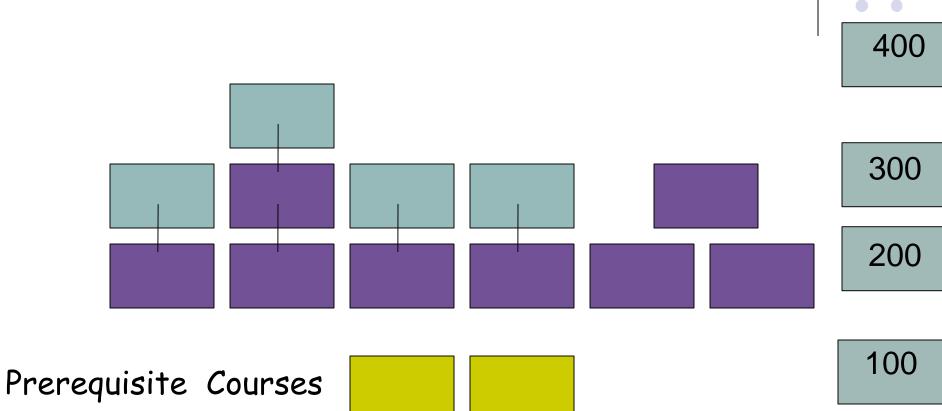


Assessment Points

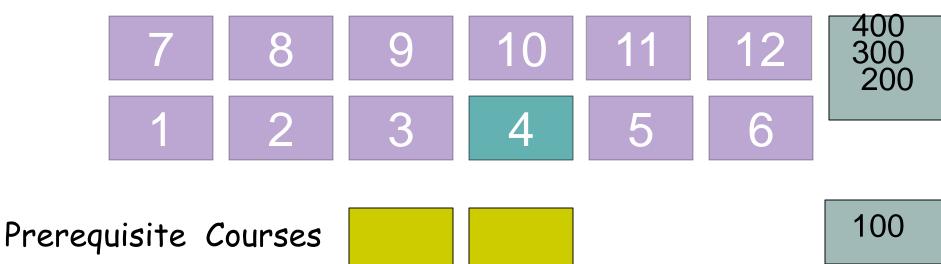
Assessment is NOT assessing every student on every outcome in every class by every faculty member every semester

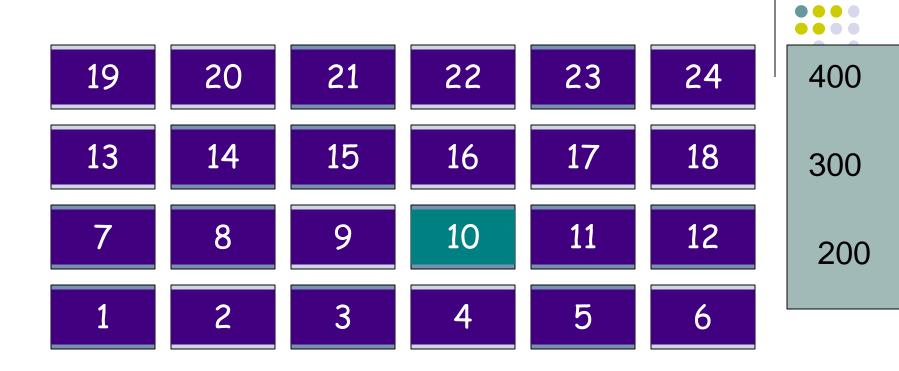


Prerequisite Courses

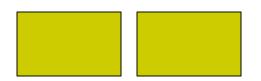






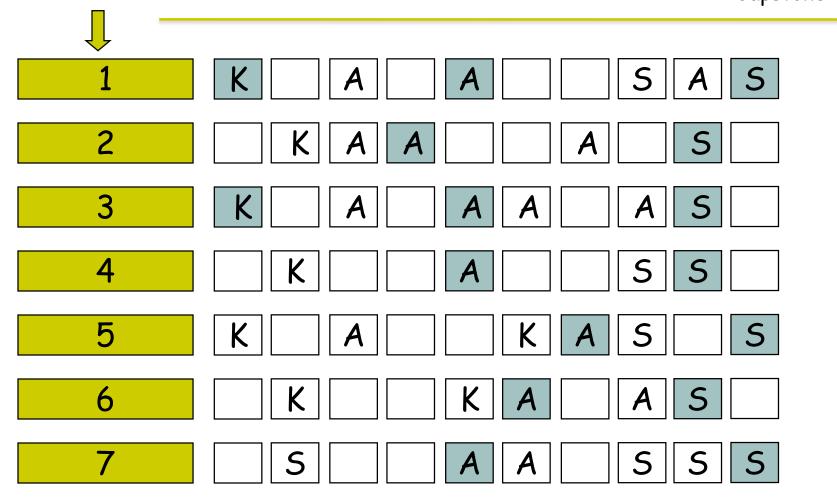


Prerequisite Courses

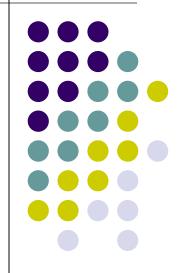


100

Program Level Student Learning Outcomes



5. Match objects to outcomes



Learning Objects

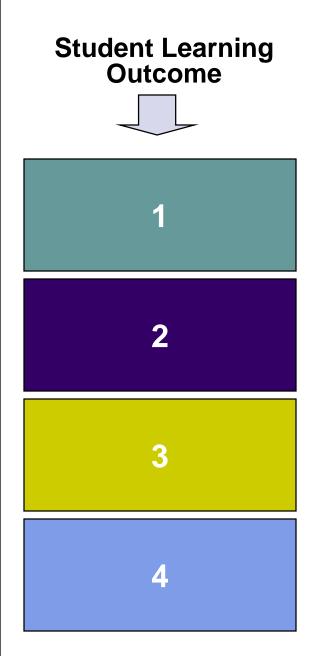


Standardized Exam, abstract, advertisement, annotated bibliography, biography, briefing, brochure, budget, care plan, case analysis, chart, cognitive map, court brief, debate, definition, description, diagram, dialogue, diary, essay, executive summary, exam, flow chart, group discussion, instruction manual, inventory, lab notes, letter to the editor, matching test, mathematical problem, memo, micro theme, multiple choice test, narrative, news story, notes, oral report, outline, performance review, plan, presentation, process analysis, proposal, regulation, research proposal, review of literature, taxonomy, technical report, term paper, thesis, word problem, work of art. (Walvoord Anderson 1998).

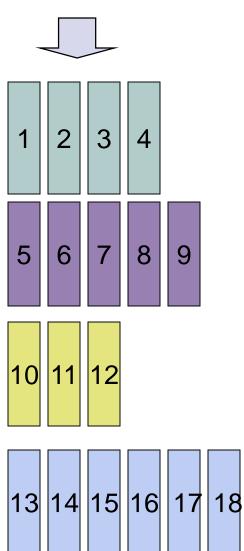
Learning Objects

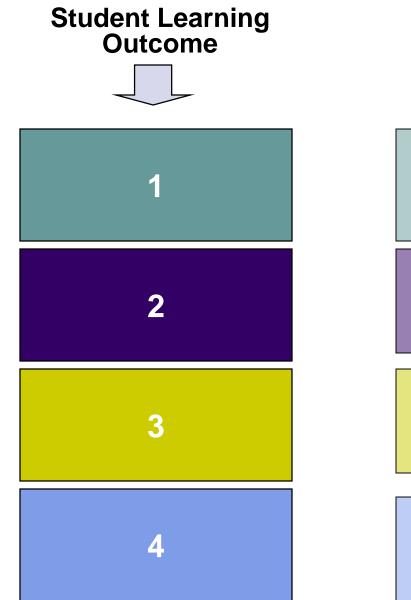
- Test
- Project
- Assignment
- Portfolio
- Recital
- Performance
- Presentation
- Exhibit
- Internship





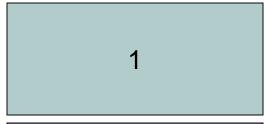
Test Questions



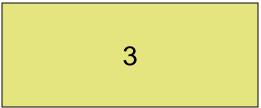


Assignment









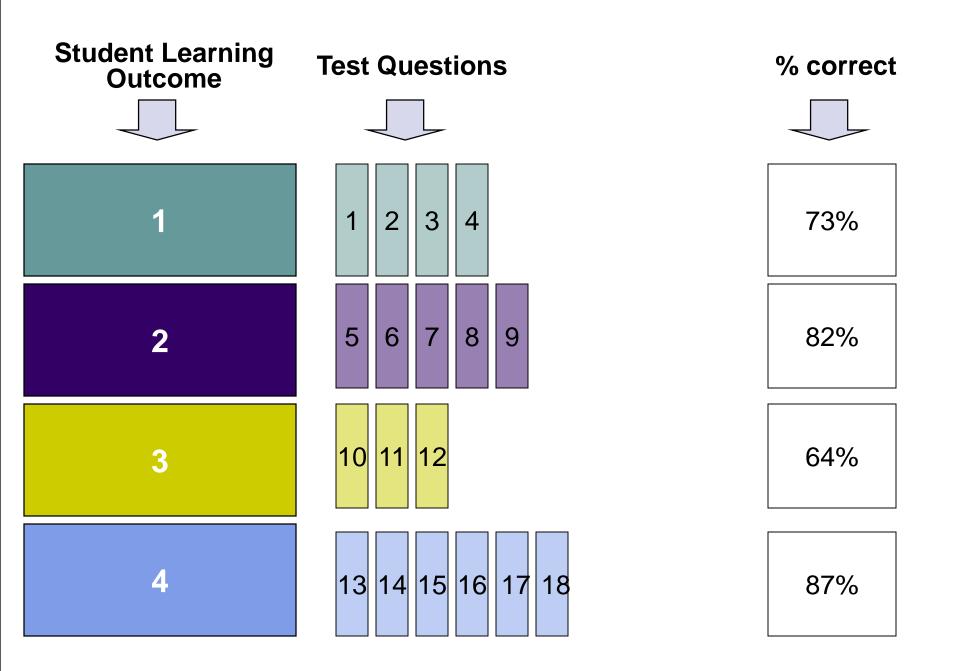


Assessing Learning



- Test
- Project
- Case Study
- Portfolio
- Recital
- Performance
- Presentation
- Exhibit
- Internship

 Number or percentage correct

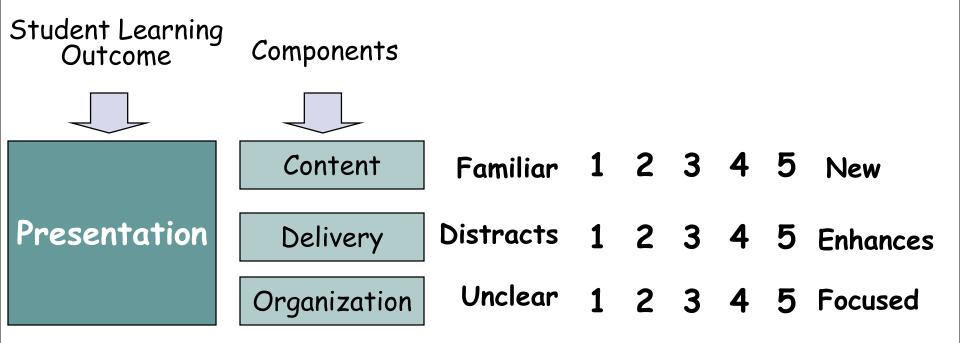


Assessing Learning

- Test
- Project
- Performance
- Case Study
- Research Project
- Presentation
- Portfolio
- Brochure
- Internship

 Number or percentage correct

Scale



Assessing Learning

- Test
- Project
- Performance
- Case Study
- Research Project
- Presentation
- Portfolio
- Brochure
- Internship

 Number or percentage correct

Scale

Rubric

Rubrics for Students

- Clarify expectations
- Focus attention
- Set standards
- Provide detailed feedback



Rubrics for Faculty

- Clarify goals of assignment
- Standardize feedback
- More detailed feedback
- Enhance objectivity
- Prevent evaluation drift
- Focus discussions with students



Rubrics for Assessment



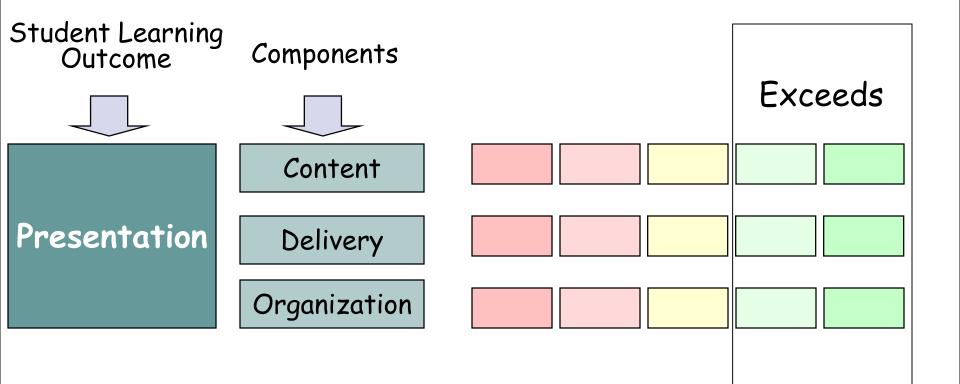
- Consistent Feedback across students, course, program allowing for the monitoring of learning outcomes
- Provide Direction for Course, Class, Program Improvement

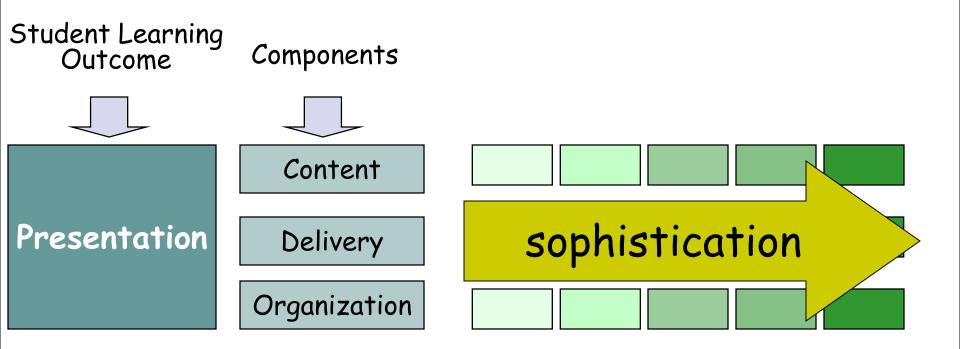
Rubrics

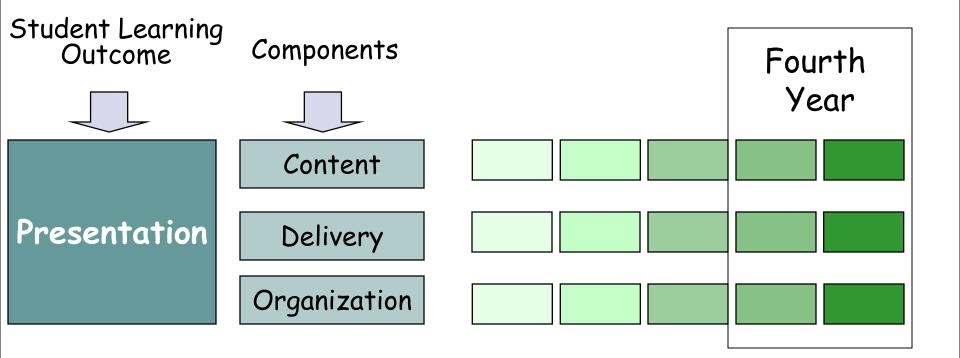


Analytical

- Numerous components which you want to assess individually
 - Summative







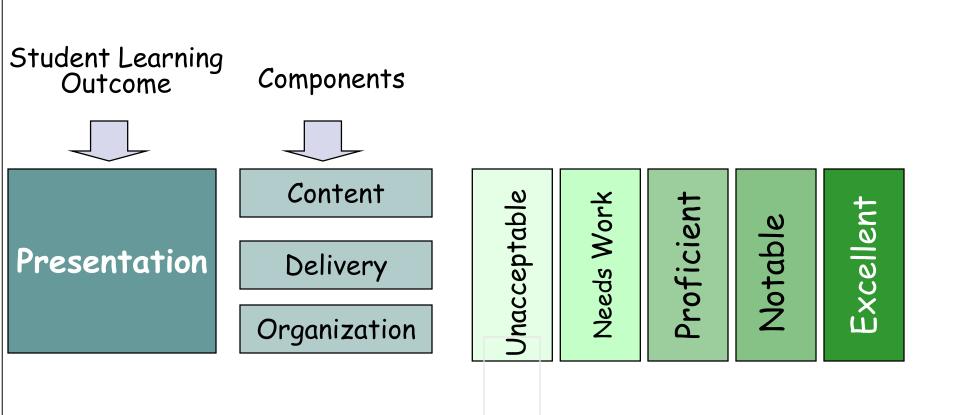
Rubrics

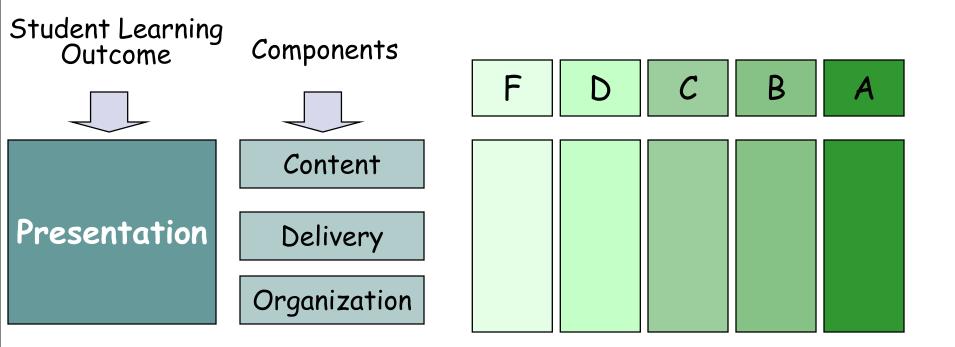


Analytical

Holistic

- generally smaller assignments with fewer criteria, shorter turn around time.





Resource



www.winona.edu/air/rubrics.htm

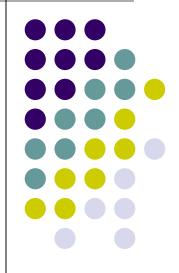
PRACTICAL ADVICE:



Pilot test your rubrics!

	Does not meet	Meets	Exceeds
Verbal Delivery	1%	15%	84%
Nonverbal Delivery	3%	5%	92%
Organization	0%	3%	97%
Evidence	1%	6%	93%
Transitions	2%	8%	90%

7. Seek patterns of evidence



Interpreting Data



- Consistency over time
- Consensus different populations
 - Distinctiveness different situations/ variables / items

Consistency



Examines the same practice of and individual or group over time

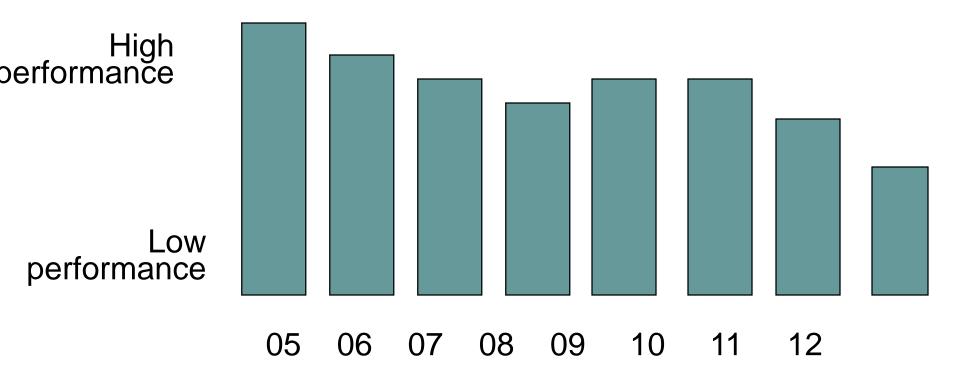
Key question:

» Has this person or group acted, felt, or performed this way in the past / over time?





How well are students performing on the learning outcome?



Consensus



- Comparison to or among groups of students
 - Variation between disciplines, gender, other demographic variables
- Key questions:
 - What is the general feeling, outcome, attitude, behavior?
 - » Do other groups of people act, perform or feel this way?





How well are students performing on the learning outcome?



Distinctiveness

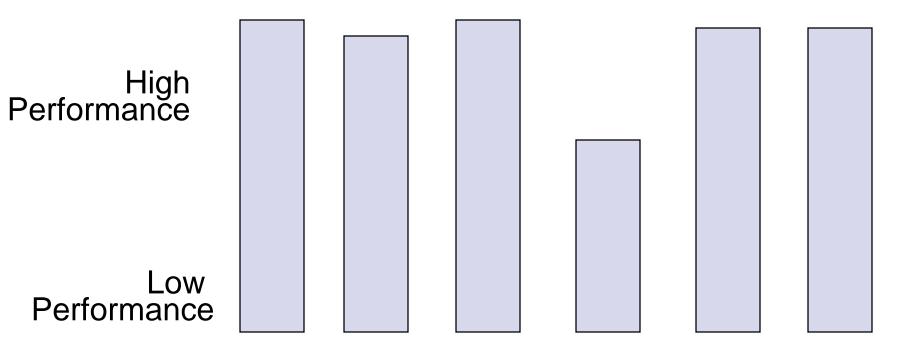


- Examines individual or cohort perspectives across different situations, categories
- Key Question:
 - » Does a person or group respond differently based upon the situation, item, issue?

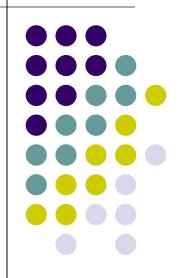


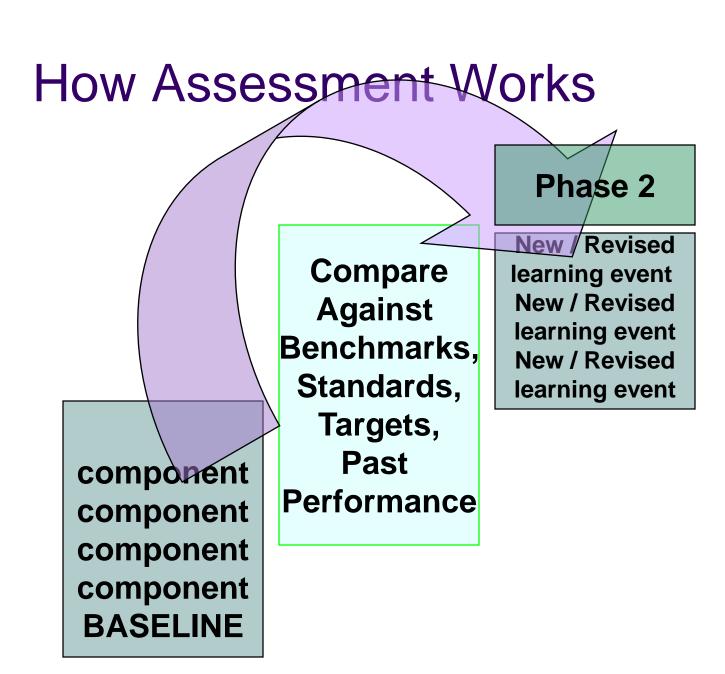


How well are our students achieving our Core Learning Outcomes?



8. Act on Results







Acting on Results

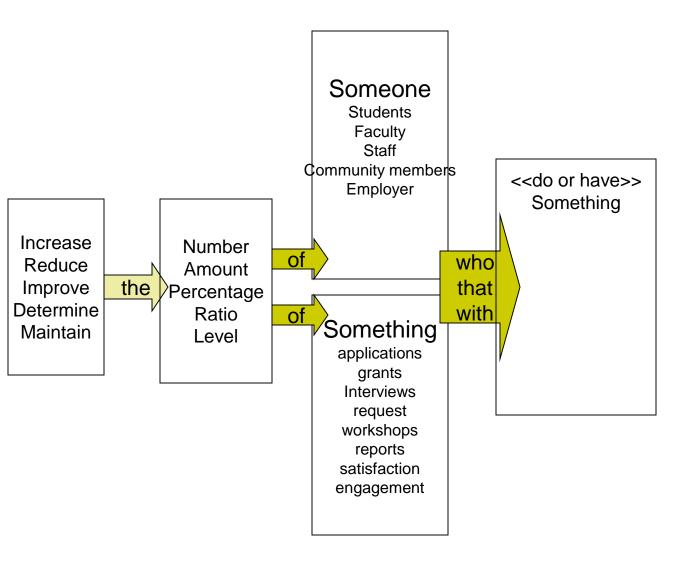


- Development
 - Faculty, Staff, Student
- Infrastructure
 - Policy, Process, Planning
- Curriculum
- Learning Opportunities

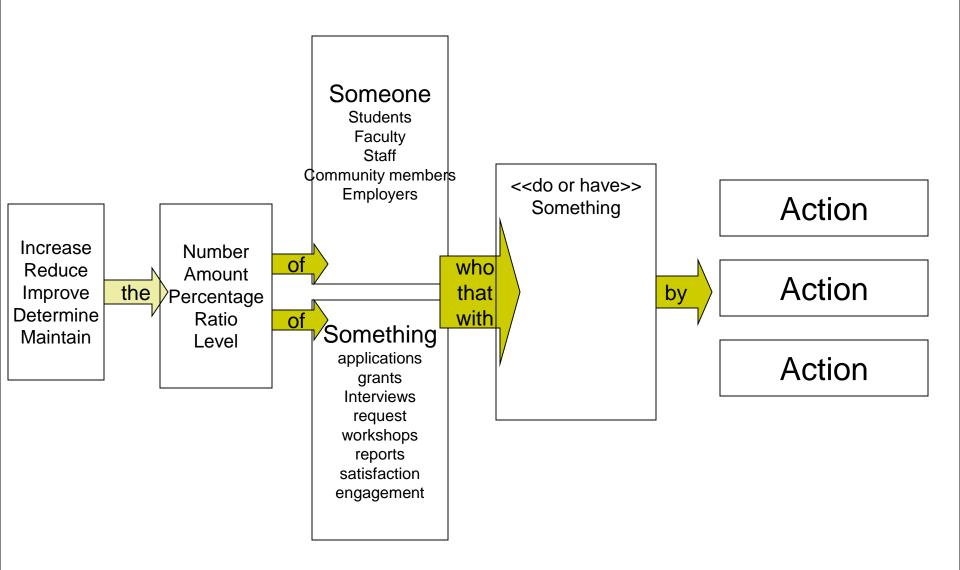


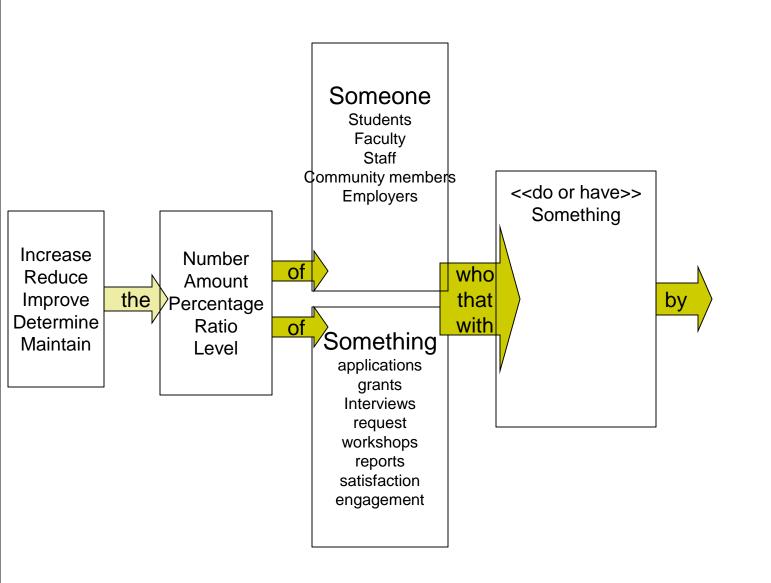
The Seven Principles for Good Practice in Undergraduate Education

- 1. Student-Faculty Contact
- 2. Cooperative Learning
- 3. Active Learning
- 4. (Prompt) Feedback
- 5. Time on Task
- 6. High Expectations
- 7. Respect for Diverse Talents and Ways of Learning

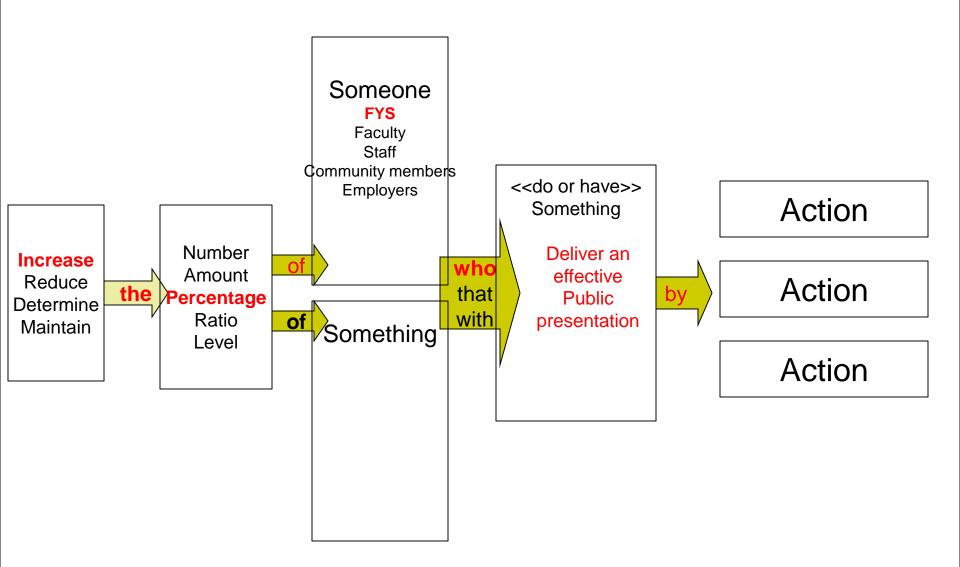


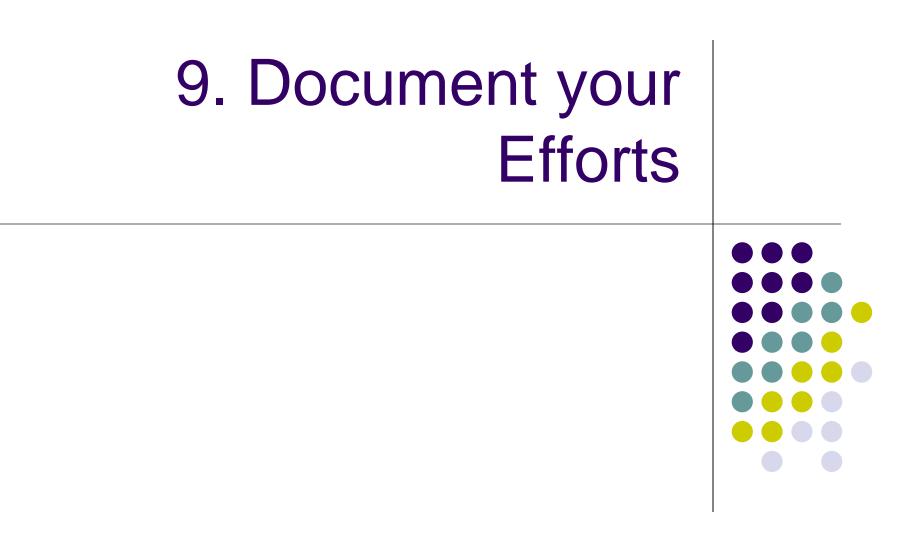


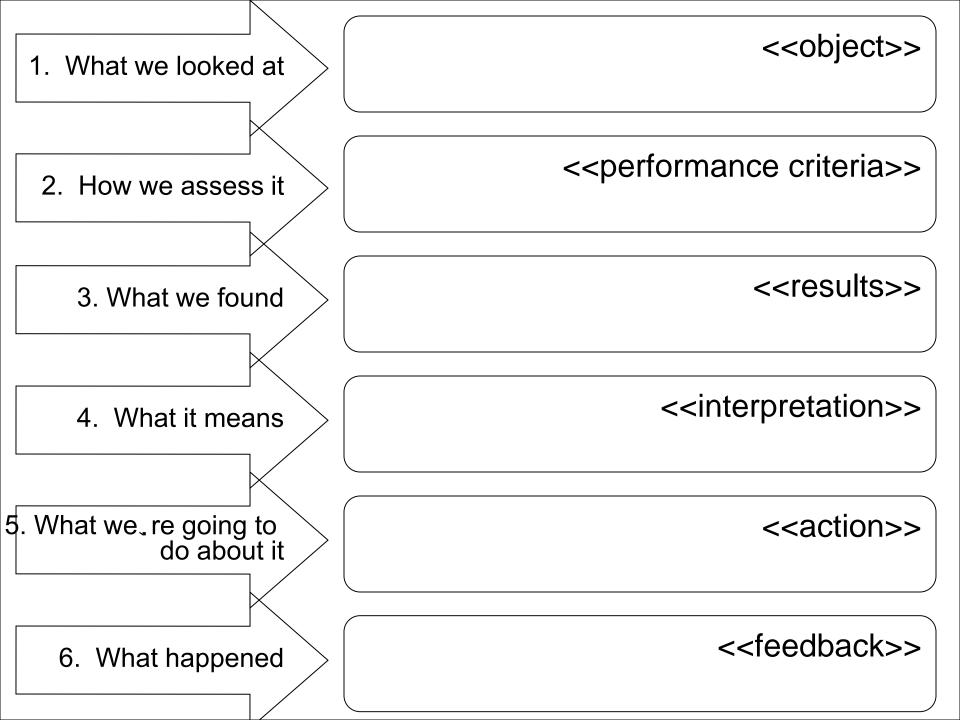




Educating..... Assisting Explaining Assisting Developing Consulting Delivering Facilitating Creating Nurturing Negotiating Sponsoring Training Translating Validating Updating Enforcing Testing Assessing Reporting Issuing Communicating Integrating Responding Arranging Coordinating Providing Organizing Producing Training Maintaining Supporting Directing Designing Collecting Developing Responding Reviewing Studying Distributing Executing Recruiting Generating Implementing Investigating Designing Collaborating Revising Scheduling Sharing







Assessing Student Learning

Academic Chairpersons Conference

February 2015 Susan Hatfield Winona State University <u>SHatfield@winona.edu</u>