# Let's SLO Down: Making Student Learning Objectives Meaningful for All



#### Tammy Andreyko, Ed.D

Assistant Superintendent for Curriculum, Assessment, & Professional Development North Allegheny School District

#### Karyn Dobda

Coordinator of Online Learning & Professional Development North Allegheny School District



### **Student Achievement**



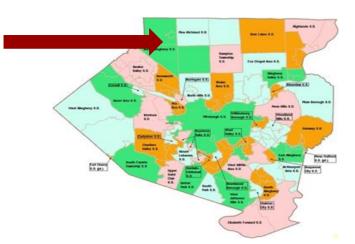
The key to improved student achievement was moving beyond an individual teacher looking at his or her classroom data. Instead, it took getting samegrade teacher teams to meet, analyze the results of each interim assessment to understand what concepts in the curriculum were posing difficulty for students, share ideas, figure out the best interventions, and actually follow-up in their classrooms (Christman et al., 2009).

### **North Allegheny School District**

Located 12 miles north of Pittsburgh, PA



- Serves 4 communities over 48 square miles
- Largest suburban school district in Allegheny County with 8,300 students
- 12 school buildings
  - 7 elementary schools (K-5)
  - 3 middle schools (6-8)
  - 2 high schools (9-10 & 11-12)



### About a year ago...

### We had to "SLO" down and create SLOs.

- PDE required SLOs of school districts
- SLOs filled a void for non-tested areas (at first)
- SLOs provided more data before three-year rolling averages were ready
- Templates were rolled out for teacher use
- Growth evolved and surpassed Mastery
- Rules changed and required Mastery AND Growth

### **Getting started**

### We were proud that we had a place to start:

- Strong unit-based curriculum
- Curriculum management tool (Rubicon Atlas)
- Student achievement
- Educator Effectiveness underway (TowerMetrix)
- PVAAS understanding
- Cooperation with our Intermediate Unit (AIU3)
- Intranet on our District's website (Schoolwires)
- Department leadership

### Common Assessments and *Not So* Common Assessments

"We made one of those tests a few years ago, but I changed mine to make it better."

"We give the same test, but she gives it as a take-home test, and I make it worth double points."

"Does it have to be a test or can we use another measure?"

"Are we going to use this again next year?"

### When your Assistant Superintendent freaks out





### The research shows:

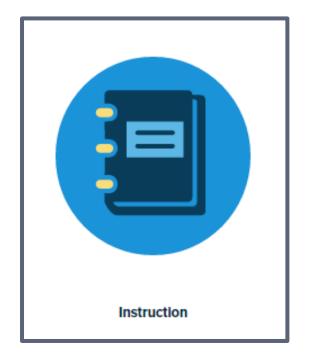
Reviews of accountability data from hundreds of schools reveal the schools with the greatest gains in achievement consistently employ common assessments, nonfiction writing, and collaborative scoring by faculty (Reeves, 2004).

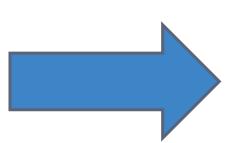
## So what did we do?



### www.pdesas.org

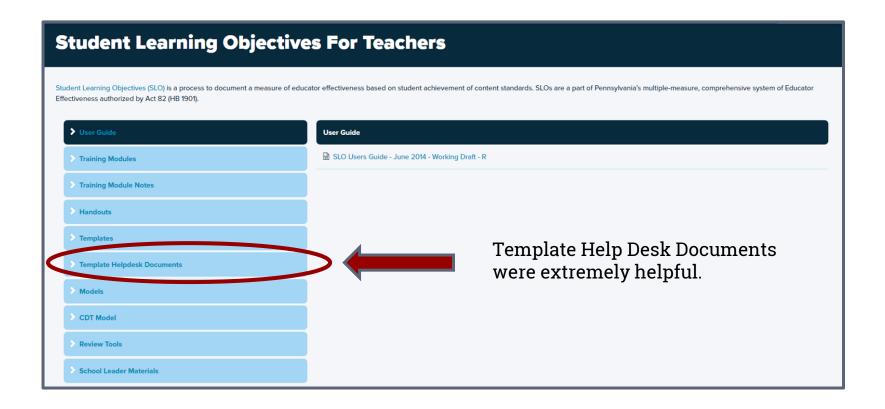








### www.pdesas.org



### **Help Desk Documents**

#### Help Desk: Section 1

This page provides detailed guidance to Section 1 of the Pennsylvania Department of Education's  $SLOProcess\ Template$ .

Element Definition Format Example						
la.Name	Educator's full name	First, MI, Last	Juan L. Rodriguez			
1b. School	Name of school(s) to which the educator is assigned during the current year.	Full Name(s)	Dunham High School Dunham Elementary School			
1c. District	Name of district to which the educator is assigned during the current year	Full Name	Dunham Area SD			
ld. Class/Course Title	Name of the class/course/content area upon which the <u>SLQ</u> is based.	Full Name(s)	Physical Education Algebra II Art ELA (Writing) Math (Measurement)			
le. Grade Level	Grade level(s) for those students included within class course identified in Element 1 d.	Numeric values/Text	11 (Single Grade) 3, 5, 7 (Multiple Grades) K (Kindergarten) Pre-K 4 (4 year old students)			
1f. Total # of Students	Aggregate number of students (estimated, across multiple sections) for which data will be collected and applied to this SLO.	Numeric values only	25 (Single class/section) 120 (Multiple classes/sections)			
lg. Typical Class Size	The "average" number of students in a single session of the class/ course identified in Element 1d.	Numeric values only	4 20 80			
1h. Class Frequency	The frequency and time frame in which the class tourne identified in Element 1d is delivered.	Numeric and text values for each unique class/course:  (# of sessions) per (week, 6 day cycle) for (war, semaster, 35 day rotation) equaling a total of (#) sessions	5 sessions per weak for one year equaling a total of 160 sessions. 3 sessions per 6 day cycle for one semester equaling a total of 45 sessions.			
li. Typical Class Duration	The average number of minutes allocated to deliver a "session" of the class/course identified in Element 1d.	Numeric values only	120 (content area taught within a day-long se contained classroom) 45 (typical secondary course delivery mode			

2

nsylvania Department of

#### Example (Foreign Langua

(Foreign Language)
Students will demonstrate effective
communication in the target language by
speaking and listening, writing, and reading

(Physics)
Students will demonstrate their understanding of
the concepts of force, the conservation of
energy, and the conservation of momentum by
explaining the motion of different moving
objects.

PA Standards 3 2 B Physics Standards 3 2 10 B1 (Hyperlink) 9.1.5.A

PDE CIP 12 0508 Institutional Food Worker Task Grid tasks 2222, 2224, 2225 Professional Standards ACTFL 11.12.13

(Foreign Language)
Speaking reading and writing are integral to second language learning, as they demonstrate the ability to communicate in the target

(Pkysist)

PA Academic Standards for Science and
Technology and Engineering Education identify
the coacepts of force, the conservation of
neutry, and the conservation of meetings, and the
conservation of conservation of meetings, and the
conservation of energy, and the conservation of
memoratum form the basis of Classical physics
and are often applied in engineering and other
related discipline.

#### elp Desk: Section 3

ce to Section 3 of the Pennsylvania Department of

_	Format	Example		
_	Format	Example		
mance mance lection 4a.	Narrative text	HS Choir Individual Vocal Assessment Task Physics Force Concept Inventory		
ormance om the tat are	Select box (Multiple boxes can be selected to describe a single Performance Measure)	District-designed Measures and Examinations   Nationally Recognized Standardized Tests   Industry Certification Examinations   Student Point     Student Point     Other		
each addresses	Narrative text	Physics Force Concept To measure student understanding of fundamental concepts in Newtonian mechanics 3 <sup>rd</sup> Grade Mark Measuremental Plan Project The data project is intended to measure student proficiency of using appropriate tools to collect and interpret data.		
formance formance	Select box (Select only one box)	Growth (change in student performance across two or more points in time)  Matstery (attainment of a defined level of achievement) Growth and Mastery		
chool year res are or inistered quency d.	Narrative text	World Language Speaking Assessment: during the last quarter of the instructional period  Pâquics Pâquics PM =1: Force Concept Inventory Photo to the start of the unit on forces and at the		

ıt	Example			
boxes that Carrative	ELL	Gifted Other		
text	Open space suitable for theatrical performance Access to books, journals, and online resources for research, scripts, and theatrical text			
text	HS Chair Individual Vocal Amessment Task Rubric Physics Force Concept laventory Scoting Key Family & Consumer Science Meal Planning Task Checkliss			
text	Physics Rolet Coaste Reserv Protect Can be administered and scored by a Certified Physical Facher HS Chair Individual Vocal Assessment Task Can be administered by the student and scored by a Certified equivalent Choral Music professional			
text	World Language Spaking Assessment Summary report of rudents who met the performance indicator  HS Croir Individual Sight Singing Task Summary list of students who achieve the performance indicator			



### We defined key terms.

- Goal Standards-based "Big Idea" (essential concept) upon which the SLO is based
- **Performance Measure** Common assessments used to measure the SLO (growth, mastery, or both)
- Performance Indicators Expected level of achievement for each performance measure

### We provided direction.



### Teachers (department/grade level) composed a goal.

 Decisions were made regarding which courses and common assessments.

### Teachers (department/grade level) selected **performance measures**.

 The performance measures will then be aligned to performance indicators. We asked for two PMs.

### <u>Individual</u> teachers set <u>performance indicators</u>.

- Each performance indicator was a reasonable expectation that utilized data.
- The SLO contained multiple measures for reliability.

### This required collaboration...which isn't always easy.





### When your Assistant Superintendent freaks out

Powerful, proven structures for improved results are at hand. "It starts when a group of teachers meet regularly as a team to identify essential and valued student learning, develop common formative assessments, analyze current levels of achievement, set achievement goals, and then share and create lessons and strategies to improve upon those levels." (Schmoker, 2004b, p. 48).

### **Important Considerations**



### SLOs should:

- Represent the diversity of students and courses/content areas taught.
- Align to a set of approved indicators/targets related to selected academic content standards.
- Be based upon two time-bound events/data collection periods and/or performance-defined levels of "mastery."
- Be supported by verifiable data that can be collected and scored in a standardized manner.
- Include a set of independent performance measures.

### Leading the process

### SHARE THE ROAD

#### **Central Office**

- Provided professional development
- Established parameters for Goals, Performance Measures, and Performance Indicators
- Reviewed templates and assessments
- Provided feedback
- Conducted a role-play of pre- and post-conferences with principals

### **Department Chairpersons & Elementary Facilitators**

- Worked with teachers to identify content to be assessed
- Used in-service time to develop and or select assessment(s)
- Completed the Template from PDE

#### Webmaster & Secretary

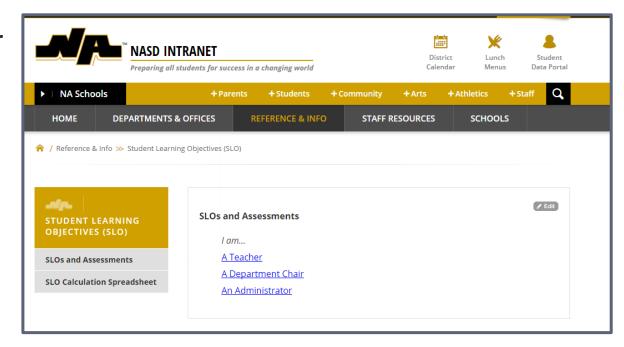
Posted all templates and assessments

### **Principals**

- Scheduled pre- and post-conferences
- Assisted teachers with establishing the Elective Rating prior to assessments

### Making it Manageable

A web page on our staff only Intranet which provides different levels of access to SLO templates and assessments.



### In October 2015, changes occurred.

#### SLO Guidance for 2015-2016

Question: Are the revised templates mandatory for all educators?

- LEAs are strongly encouraged to consider revising their SLO to reflect growth. LEAs do not need to use the new template. However, they should go back and revisit SLOs developed for the 2015-2016 school year and include baseline data to demonstrate growth.
- USDE requires that PDE collect summative evaluation data from LEAs in
  the annual evaluation collection. As a result of the waiver, PDE will be
  required to report to USDE aggregate component specific data. Therefore,
  teacher specific and elective SLO growth for teachers and principal SLO
  growth will be required data elements for the 2015-2016 school year data
  collection. LEAs will be responsible for submitting these data.



SLOs now must include baseline data to demonstrate growth.



## Options for Demonstrating Growth



### Growth PM – Half to 100 (Using percentages)

Students will demonstrate growth on the assessment by cutting the gap to 100% in half <u>or</u> by scoring 90% or higher on the post-assessment.

Target = (gap to 100%)x.5 + (pre-test score) OR achieving 90% or more



### Growth PM – Half to 100 (Using percentage)

Student	Pre-Assessment Score	Gap to 100%	Post-Assessment Target	OR: Post- Assessment Target of 90% or Higher
Student A	10%	90%	55% = (90x.5 +10)	90% or more
Student B	20%	80%	60% = (80x.5 + 20)	90% or more
Student C	50%	50%	75% = (50x.5 + 50)	90% or more
Student D	80%	20%	90% = (20x.5 + 80)	90% or more

### Growth PM – Half to 100 (Using Raw Score)

Students will demonstrate growth on the post-assessment by cutting the gap of 50 pts. out of 50 pts.\* in half <u>or</u> by scoring 45 pts. out of 50 pts., which is the equivalent of 90% or higher on the post-assessment.

**Target** =  $(gap\ to\ 100\%) \times .5 + (pre-test\ score)$ 

OR achieving the equivalent 90% or more



### Growth PM – Half to 100 (Using raw score)

Student	Pre-Assessment Raw Score	Gap to a score of 50/50 max points	Post-Assessment Target	OR: Post- Assessment Target of 90% or Higher
Student A	10	40	30 points = 40 x .5 + 10	Min. 45/50 pts.
Student B	20	30	35 points = 30 x .5 + 20	Min. 45/50 pts.
Student C	50	0	50 points = 0 x .5 + 50	Min. 45/50 pts.
Student D	32	18	41 points = 18 x .5 + 32	Min. 45/50 pts.

NOTE: This example uses a 50-point assessment. The targets are raw score targets.

### Growth PM – Using a Rubric

Students will demonstrate growth by advancing to the next level on a rubric from the pre- to the post-assessment <u>or</u> by scoring "Advanced."

### 4 categories (ranked highest to lowest)

- Advanced\*
- Proficient
- Emerging
- Novice

\*If Advanced in pre-test, is there still room for growth?



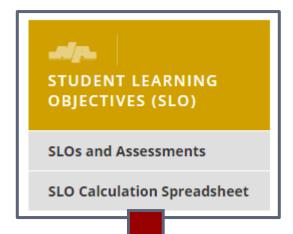
### Growth PM – Using a Rubric

Student	<b>Pre-Test Score</b>	Target
Student A	Emerging	Proficient
Student B	Proficient	Advanced
Student C*	Advanced	Advanced

If Advanced in pre-test, is there still room for growth?

If so, student should attempt to grow. Full credit for that student is still issued.

### Calculating Elective Ratings



	SLO Elective Rating Calcuation				
П	Performance Measure #1		Performance Measure #2		
	Total Number of students in SLO for performance measure #1		Total Number of students in SLO for performance measure #2		
	Number of students meeting Performance Target #1		Number of students meeting Performance Target #2		
	Weight for Performance Target #1 (enter as decimal)		Weigth for Performance Target #2 (enter as decimal)		
1					
	Elective Rating Percentage	#DIV/0!			

### Let's SLO down one more time

### THE POTHOLES WERE WORTH IT!

"[Common formative assessments provide] regular and timely feedback regarding student attainment of the most critical standards . . . [and] also foster consistent expectations and priorities within a grade level, course, and department regarding standards, instruction, and assessment . . . . Most importantly, common formative assessment results enable educators to diagnose student learning needs accurately in time to make instructional modifications." (Ainsworth, 2007, pp. 95–96)

...but they also use data to inform teachers' practice, to discuss why one teacher is having success in teaching a concept and others are not, and what the more successful teacher can teach his or her colleagues (Chenoweth, 2009).



### So what if SLOs go away?

### We have learned a few **valuable** lessons:

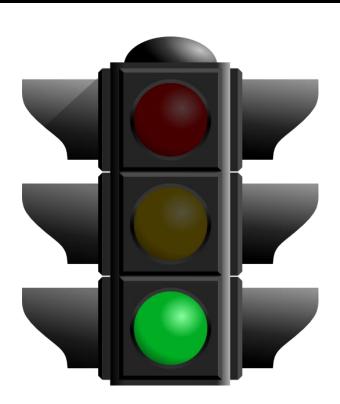
- The value of collaboration and "commonness"
- The need for horizontal and vertical alignment of curriculum
- The complex practice of gathering and analyzing data
- The strength of internal leadership
- The complexity of change management
- We underestimated how long this process took to complete for teachers, principals, and secretaries!

We won't stop now!!!





### Time to GO!



#### Tammy Andreyko, Ed.D

Assistant Superintendent for Curriculum, Assessment, & Professional Development North Allegheny School District tandreyko@northallegheny.org

#### Karyn Dobda

Coordinator of Online Learning & Professional Development North Allegheny School District kdobda@northallegheny.org

