Assurance of Student Learning				
2019-2020				
College of Education and Behavioral Sciences	School of Teacher Education			
SKyTeach, Science	and Mathematics Education 0774			
Use this page to list learning outcomes, measurements, and su	immarize results for your program. Detailed information must be completed			

Use this pag	e to list learning outcomes, measurements, and summarize results for your program. Detailed information	ation must	be completed
	in the subsequent pages.		
Student Lear	rning Outcome 1: Students will create and document teacher work sample in their content area (contextual factors	s, learning go	als, pre/post
	esign for instruction, analysis of learning, reflection of teaching practices).	, 00	
Instrument 1	SMED 489: Students are evaluated using the Teacher Work Sample Rubric. In-class exploration and practice will al	I nhases of h	ackward design
mstrument 1		•	•
	(goal / objective writing, assessment development, instructional design), including phase-by-phase feedback fro	m both peer	s and instructor
Instrument 2			
Instrument 3			
Based on your	results, circle or highlight whether the program met the goal Student Learning Outcome 1.	Met	Not Met
G. I I	* O 4 A CIMEND AFFO DDI Hart Diagra		<u> </u>
	ning Outcome 2: SMED 470 PBI Unit Plan:		
	work collaboratively with a cooperating teacher, master teacher, and professor to develop a proble	em/project-	-based
instructional	unit approximately one week in length		
Instrument 1	SMED 470: Students will be evaluated over 5 checkpoints throughout the semester where the students receive feedback a	nd direction	on aspects of
	problem-based unit development. Students are evaluated on a criterion referenced document.		-
Instrument 2			
Instrument 3			
Based on your	results, circle or highlight whether the program met the goal Student Learning Outcome 2.	Met	Not Met
• Stude	nt Learning Outcome 3: SMED 320: Students will plan, teach, and analyze effectiveness of instruction based on	evidence of s	tudent learning
for two solo ex	periences culminating in the Comprehensive Video Analysis of Teaching		
Instrument 1	SMED 320: Students will complete a final course reflection through a video analysis project.		
Instrument 2			
moti differit 2			
Instrument 3			
	results, circle or highlight whether the program met the goal Student Learning Outcome 3.	Met	Not Met

because Cummous (D.) (I		
2011		

Program Summary (Briefly summarize the action and follow up items from your detailed responses on subsequent pages.)

Actions following the 2018-2019 academic year include course alignment to create a logical progression of complexity in lesson development, lesson planning, lesson delivery, and assessment of student learning. Technological tools were introduced to add supports for ongoing student progress. Students know earn Google Level 1 teacher certification early in the program and students earn Google Level 2 teacher certification during their capstone course.

		Student Learning Outco	me 1	
Student Learning Outcome	Students will c	reate and document teacher work sample in	their content area (contextual factors, le	earning goals, pre/post
	assessment, de	esign for instruction, analysis of learning, refl	ection of teaching practices).	
Measurement Instrument 1	NOTE: Each student learning outcome should have at least one direct measure of student learning. Indirect measures are not required. The teacher work sample rubric is attached to the end of this document. Fall 2019 Data: 7 students were enrolled in SMED 489 and all 7 students received a "3" on the Teacher Work Sample Spring 2020 Data: 13 students were enrolled in SMED 489 and all 13 students received a "3" on the Teacher Work Sample			
Criteria for Student Success	Teacher work sa	mple rubric		
Program Success Target for this		Score of 80% or better on the project rubric which represents a score of "3", proficient or higher.	Percent of Program Achieving Target	100%
Methods		te this task in their final semester during their SM rding their teacher work sample. No student is ab		
Measurement Instrument 2				
Criteria for Student Success				
Program Success Target for thi	s Measurement	100%	Percent of Program Achieving Target	100%
Methods				
Measurement Instrument 3				
Criteria for Student Success				
Program Success Target for thi	s Measurement		Percent of Program Achieving Target	
Methods				

		2011	0		
Based on your results, circle or h	nighlight whether the program met the goal Student Learning Outcome 1.		_	Met	Not Met

Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)

Actions following the 2018-2019 included the implementation of a plan to train all students in the use of instructional technology and in the development of a professional growth plan. A phase in plan to require Google Teacher Certification at Level 1 and Level 2 and a professional growth dossier over the course of the program was implemented. Google Level One Certification became a requirement in SMED 470 in Fall 2017 and it also became a requirement in SMED 102 in Fall 2018. This will allow the program to begin requiring Google Level Two Certification in SMED 470 in Fall 2021 and the program will continue requiring Google Level One certification in SMED 102.

Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)

Follow-up items will include ongoing program discussions and revisions on curriculum alignment with respect to field based clinical exercises that complement content addressed during the lecture components of SKyTeach coursework. These revisions will be in place by the 2020-2021 academic year.

		Student Learning Ou	tcome 2				
Student Learning Outcome		Students will work collaboratively with a cooperating teacher, master teacher, and professor to develop a problem/project-based instructional unit approximately one week in length					
Measurement Instrument 1	NOTE: Each student learning outcome should have at least one direct measure of student learning. Indirect measures are not required. The problem-based unit of instruction rubric/guidelines is attached to the end of this document. Fall 2019 Data: 13 students were enrolled in SMED 470 and all 13 students received a score of 80% or higher on the rubric. Spring 2020 Data: 11 students were enrolled in SMED 470 and all 11 students received a score of 80% or higher on the rubric.						
Criteria for Student Success	The problem-ba	ased unit of instruction rubric/guidelines is	attached to the end of this document.				
Program Success Target for this	Measurement	Score of 80% or better on the rubric	Percent of Program Achieving Target		100%		
Methods	the development	t of a problem-based unit of instruction through	ment at the end of the SMED 470 course. Studen shout the semester. The culminating event in the unit in the clinical field placement and a teaching	course is the dev	velopment of		
Measurement Instrument 2							
Criteria for Student Success							
Program Success Target for thi	s Measurement		Percent of Program Achieving Target				
Methods				l			
Measurement Instrument 3							
Criteria for Student Success							
Program Success Target for thi	s Measurement		Percent of Program Achieving Target				
Methods							
Based on your results, circle or	highlight whether	the program met the goal Student Learni	ng Outcome 2.	Met	Not Met		

Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)

Actions following the 2018-2019 included the implementation of a plan to train all students in the use of instructional technology and in the development of a professional growth plan. A phase in plan to require Google Teacher Certification at Level 1 and Level 2 and a professional growth dossier over the course of the program was implemented.

Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)

Follow-up items will include ongoing program discussions and revisions on curriculum alignment with respect to field based clinical exercises that complement content addressed during the lecture components of SKyTeach coursework. These revisions will be in place by the 2020-2021 academic year.

		Student Learning Outcome	me 3		
Student Learning Outcome	Students will plan, teach, and analyze effectiveness of instruction based on evidence of student learning for two solo experiences culminating in the Comprehensive Video Analysis of Teaching				
Measurement Instrument 1	NOTE: Each s required.	NOTE: Each student learning outcome should have at least one direct measure of student learning. Indirect measures are not required.			
	The video analy	ysis project rubric is attached to the end of this	document.		
	Fall 2019 Data: 10 students were	e enrolled in SMED 320 and all 10 students receive	ed a score of 80% or higher on the rubric.		
	Spring 2020 Date 10 students were	ta: e enrolled in SMED 320 and all 10 students receive	ed a score of 80% or higher on the rubric.		
Criteria for Student Success	The video analy	ysis project rubric is attached to the end of this	document.		
Program Success Target for this		Score of 80% or better on the rubric	Percent of Program Achieving Target	100%	
Methods	the development	the SKyTeach program completes this assignment t of lessons throughout the semester. The culmina of the lesson in the clinical field placement and a	ting event in the course is the development of	an original 5E inquiry based	
Measurement Instrument 2					
Criteria for Student Success					
Program Success Target for thi	s Measurement		Percent of Program Achieving Target		

			2011 9		
Methods			2011 9		
Measurement Instrument 3					
Criteria for Student Success					
Program Success Target for this	s Measurement		Percent of Program Achieving Target		
	T				
Methods					
Rosed on your results, circle or k	 nighlight whathe	r the program met the goal Student Learning (Jutcoma 3		
based on your results, circle of r	ngmgnt whethe	t the program met the goal Student Learning	Jutcome 3.	Met	Not Met
Actions (Describe the decision-ma	aking process and	actions planned for program improvement. The	actions should include a timeline.)		
Actions following the 2018-2019	included the imp	plementation of a plan to train all students in the	e use of instructional technology and in the	development of	a professional
growth plan. A phase in plan to	o require Googl	e Teacher Certification at Level 1 and Level 2	and a professional growth dossier over the	he course of the	program was
implemented.					
Follow-Un (Provide your timeline	for follow-up. I	f follow-up has occurred, describe how the actions	ahove have resulted in program improvemen	nt)	
		ussions and revisions on curriculum alignment wi			itent addressed
	01 0	work. These revisions will be in place by the 202	1	t complement con	nem addressed
and he receive components of t	511, 100011 0001150	These terms on the set in place by the 202	o 2021 academie jeur.		

Student Learning Outcome 1: SMED 489 Student Teaching Seminar Teacher Work Sample Rubric

	Contextual Factors Rubric					
Criteria	Beginning	Developing	Proficient	Exemplary		
CF 1	Characteristics of school	Characteristics of school	Characteristics of school	Achieves the Proficient		
School	described at the minimal,	described at the minimal,	described clearly at a substantive,	level with minimal		
Information	inaccurate, irrelevant or	inaccurate, irrelevant or biased	accurate, and unbiased level in all	assistance on the first		
	biased level in 2 or more of	level in 1 of the 5 required areas.	of the 5 required areas. School	attempt and demonstrates		
KTS 2.2, 3.3	the required areas. School	School information provided	information provided includes the	above and beyond the		
	information provided	includes the 5 required areas and	5 required areas and at least1	Proficient level.		
	limited to the 5 required	at least 1 additional area.	additional area.			
	areas.					
		Implications based on this	Implications based on this			
	Implications based on this	information are clearly stated and	information are clearly stated and			
	information are missing or	complete for the 1 area.	complete for 2 areas.			
	not appropriately stated.	_	_			

				2011
CF 2	Characteristics of	Characteristics of classroom	Characteristics of classroom	Achieves the Proficient
Knowledge of	classroom described at the	described at the minimal,	described clearly at a substantive,	level with minimal
Classroom	minimal, inaccurate,	inaccurate, irrelevant or biased	accurate, and unbiased level in all	assistance on the first
Information	irrelevant or biased level in	level in 1 of the 4 required areas.	of the 4 required areas.	attempt and demonstrates
	2 or more of the 4 required			above and beyond the
KTS 2.2, 3.3	areas.	Implications based on this	Implications based on this	Proficient level.
		information are clearly stated and	information are clearly stated and	
	Implications based on this	complete for 1 area.	complete for at least 2 areas.	
	information are missing			
CF 3	Characteristics of students	Characteristics of students	Characteristics of students	Achieves the Proficient
Knowledge of	described at the minimal,	described at the minimal,	described clearly at a substantive,	level with minimal
Student	inaccurate, irrelevant or	inaccurate, irrelevant or biased	accurate, and unbiased level in all	assistance on the first
Characteristics	biased level in 2 or more of	level in 1 of the 8 required areas.	of the 8 required areas.	attempt and demonstrates
	the 8 required areas.			above and beyond the
KTS 2.2, 3.3		Implications based on this	Implications based on this	Proficient level.
	Implications based on this	information are clearly stated and	information are clearly stated and	
	information are missing or	complete for 6 of the 7 areas.	complete for the 7 required areas.	
	not appropriately stated in			
	at 2 areas.			

	Lear	rning Goals & Pre/Post Assess	sment Rubric	
Prompt Areas	Beginning	Developing	Proficient	Exemplary
LGA 1 List 2 to 3 learning goals KTS 2.1	None of the learning goals are clear or logical for one or more of the following: learning outcomes, stated in behavioral terms, focused on the unit topic, appropriate for student abilities, and appropriate for content/curriculum	Only one clear learning goal provided Or one of the 2 to 3 learning goals are not clear or logical for one or more of the following: learning outcomes, stated in behavioral terms, focused on the unit topic, appropriate for student abilities, and appropriate for content/curriculum.	2 to 3 learning goals stated as clear, logical learning outcomes, stated in behavioral terms, focused on the unit topic, appropriate for student abilities, and appropriate for content/curriculum.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
LGA 2 Levels of learning goals KTS 3.1	Goals do not reflect revised Bloom's Taxonomy with at least one goal at or above the Analyzing level.	Goals somewhat reflect revised Bloom's Taxonomy with at least one goal at or above the Analyzing level.	Goals reflect revised Bloom's Taxonomy with at least one goal at or above the Analyzing level.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
LGA 3 Alignment of Learning Goals with standards KTS 2.1	Not every learning goal is aligned with local, state or national standards Or content and Bloom's levels are incorrect.	Each of the learning goals is not correctly and logically aligned with local, state or national standards in content and Bloom's levels. Some standards are missing or incorrectly aligned with goals.	Each of the learning goals is correctly and logically aligned with local, state or national standards in content and Bloom's levels.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
LGA 4 Appropriateness of Learning Goals KTS 2.2, 1.2	Justification is missing for two goals Or 2 or more justifications of the required areas in the prompt	Justification is missing for one goal Or 3 or more justifications of the required areas in the prompt	Clear and logical justification in the 4 required areas for learning goal appropriateness: student prior knowledge, student learning needs and/or developmental appropriateness, authentic real world, and other relevant connections.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
LGA 5 Mastery levels for each Learning Goal KTS 3.1	Mastery level is not provided for each goal Or it is not mathematically possible Or indicates level that is too low for student abilities or discipline	Mastery level for each goal may not be mathematically possible or indicates lower expectations for student abilities or discipline	Mastery level for each goal is mathematically possible and indicates high expectations for student abilities or discipline	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
Pre-post Assessment Blueprint: Learning Goals KTS 5.1, 5.3	All assessment items are not aligned to specific learning goals, correct level of Bloom's, and content standard.	All assessment items are clearly and appropriately aligned to 2 of the following: specific learning goals, correct level of Bloom's, and content standard.	All assessment items are clearly and appropriately aligned to specific learning goals, correct level of Bloom's, and content standard.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
LGA 7 Pre-post Assessment Blueprint: Adaptations KTS 2.2	Description of adaptations does not meet the individual needs of students as described in the contextual factors or no description is provided.	Description of adaptations does not clearly meet the individual needs of students as described in the contextual factors or description is incomplete.	Clear, logical description of adaptations that meet the individual needs of students as described in the contextual factors	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
Pre-post Assessment Blueprint: Modes of Assessments KTS 5.1, 5.3	The pre and post assessment represents only one mode or assessments do not integrate knowledge, skills and/or reasoning ability.	The pre and post assessment duplicates some modes or assessments do not require clear integration of knowledge, skills and/or reasoning ability.	The pre and post assessment includes multiple modes and requires the integration of knowledge, skills and/or reasoning ability.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.

LGA 9	Scoring procedures are	Scoring procedures are not well	Scoring procedures are	Achieves the Proficient
Pre-post Assessment	not explained; assessment	explained; assessment items or	explained, assessment items or	level with minimal
Blueprint: Scoring	items or prompts are not	prompts are not clearly written;	prompts are clearly written,	assistance on the first
Criteria	written for student	mastery levels are not clearly	mastery levels defined,	attempt and demonstrates
	understanding; mastery	defined; directions and procedures	directions and procedures are	above and beyond the
KTS 5.1	levels are not defined;	are not clear to students. Scoring	clear to students. Scoring key	Proficient level.
	directions and procedures	key and/or rubrics are attached but	and/or rubrics are attached and	
	are not clear to students.	do not include all required	include all required	
	Scoring key and/or rubrics	components.	components.	
	are incomplete.			

		Design for Instruction	n	
Criteria	Beginning	Developing	Proficient	Exemplary
DI 1	Depicted the results of the	Depicted the results of the pre-	Depicted the results of the pre-	Achieves the Proficient
Results of pre- assessment KTS 5.4, 2.2	pre-assessment. Failure to administer pre-assessment or to accurately provide 2 or more of the following information pieces and implications as they relate to	assessment. Administration of pre-assessment but failure to accurately provide 1 of the following information pieces and implications as they relate to learning goals:	assessment. Administration of pre-assessment and accurate inclusion of the following information pieces and implications as they relate to learning goals:	level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
	learning goals: Number of students mastering each learning goal; type of missed questions/tasks; and content/skill of incorrect responses. For each of the above areas, identify the implications derived from pre-assessment data and adjustments planned due to information from pre-assessment data	Number of students mastering each learning goal; type of missed questions/tasks; and content/skill of incorrect responses. For each of the above areas, identify the implications derived from pre-assessment data and adjustments planned due to information from pre-assessment data analysis.	Number of students mastering each learning goal; type of missed questions/tasks; and content/skill of incorrect responses. For each of the above areas, identify the implications derived from pre-assessment data and adjustments planned due to information from pre-assessment data analysis.	
	analysis.			
DI 2 Unit Overview KTS 2.1, 1.3, 2.5,	Provides a limited description for 5 of the following criteria in unit overview:	Provides an adequate description for 6 following criteria in unit overview:	Provides thorough understanding of the following criteria in unit overview:	Achieves the Proficient level with minimal assistance on the first
1.1, 1.2	Learning goals and objectives for each	Learning goals and objectives for each day/lesson;	Learning goals and objectives for each day/lesson;	attempt and demonstrates above and beyond the Proficient level.
	day/lesson; Topic/activity per day	Topic/activity per day related to at least one learning goal;	Topic/activity per day related to at least one learning goal;	
	related to at least one learning goal; Instructional strategies	Instructional strategies content aligned with Bloom's levels and differentiation of instruction.	Instructional strategies content aligned with Bloom's levels and differentiation of instruction.	
	content aligned with Bloom's levels and differentiation of instruction.	Variety of research-based strategies, activities, alignments/resources	Variety of research-based strategies, activities, alignments/resources	
	Variety of research-based strategies, activities, alignments/resources	Student engagement	Student engagement	
	Student engagement	Real world connections;	Real world connections;	
	Real world connections;	Description multiple formative assessments that are appropriate and aligned to the	Description multiple formative assessments that are appropriate and aligned to the	
	Description multiple formative assessments that are appropriate and aligned to the Learning Goals;	Learning Goals; Specific adaptations and differentiation per strategy that address Contextual Factors and	Learning Goals; Specific adaptations and differentiation per strategy that address Contextual Factors and	
	Specific adaptations and differentiation per strategy that address Contextual Factors and the pre- assessment.	the pre-assessment.	the pre-assessment.	
DI 3 Integration of Technology KTS 6.1	Minimal technology use in planning and instruction	Some technology use in planning and instruction	Demonstrate technology integration in planning and instruction and how P-12 student use of technology will be integrated in unit for higher level thinking activities and in a real world context.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.

DI 4	Provides an limited	Provides an adequate		Achieves the Proficient
Instructional	description of two	description of two instructional	Thorough and clear description	level with minimal
Strategies	instructional strategies from	strategies from different	of two instructional strategies	assistance on the first
I	different learning goals for 2	learning goals for 3 of the	from different learning goals	attempt and demonstrates
KTS 1.1, 1.2, 1.3,	of the following criteria in	following criteria in unit	that includes:	above and beyond the
2.4, 2.5	unit overview:	overview:		Proficient level.
1			Identification of appropriate	
1	Identification of appropriate	Identification of appropriate	content related strategies to	
1	content related strategies to	content related strategies to	meet Learning Goals and	
I	meet Learning Goals and	meet Learning Goals and	revised Bloom's levels;	
1	revised Bloom's levels;	revised Bloom's levels;		
1			Instructional strategies meet	
1	Instructional strategies meet	Instructional strategies meet	student needs through	
1	student needs through	student needs through	appropriate adaptations and	
1	appropriate adaptations and	appropriate adaptations and	differentiated instruction based	
1	differentiated instruction	differentiated instruction based	on pre-assessment data.	
1	based on pre-assessment	on pre-assessment data.		
1	data.		Real world connections;	
1		Real world connections;		
1	Real world connections;		Discussion of	
1		Discussion of	materials/technology.	
1	Discussion of	materials/technology.		
1	materials/technology.			
DI 5	Provides a limited	Provides an adequate	Thorough and clear explanation	Achieves the Proficient
Formative	description for 1 of the	description for 2 of the	of Formative Assessments	level with minimal
Assessments	following criteria in unit	following criteria in unit	including the following items:	assistance on the first
1	overview:	overview:		attempt and demonstrates
KTS 2.3, 5.4			Description of assessment and	above and beyond the
1	Description of assessment		purpose;	Proficient level.
1	and purpose;	Description of assessment and		
1		purpose;	Justify appropriateness for the	
i	Justify appropriateness for		content and developmental	
i	the content and	Justify appropriateness for the	level of students;	
i	developmental level of	content and developmental		
i	students;	level of students;	Inclusion of formative	
			assessments and scoring	
Ì	Inclusion of formative	Inclusion of formative	criteria.	
	assessments and scoring	assessments and scoring		
i e	criteria.	criteria.	1	I

	Analysis of Student Learning					
Criteria	Beginning	Developing	Proficient	Exemplary		
ASL 1 Visual Representation of Student Performance KTS 6.4	No use of technology tools to create graphs/tables; graphs/tables are hand drawn. 3 or more required graphs/tables are not included. Or All required graphs/tables from the prompt are included but most are inaccurate, do not communicate student learning gains, or do not compare groups and assessments correctly.	Poor use of technology tools to create graphs/tables; graphs/tables do not clearly or accurately communicate data. 1 or 2 required graphs/tables are not included. Or All required graphs/tables from the prompt are included but some are inaccurate, do not communicate student learning gains, or do not compare groups and assessments correctly.	Excellent use of technology tools to create graphs/tables that communicate student learning data legibly and accurately. At least three graphs/tables from the prompt are included, providing accurate data to communicate, assess, and compare student learning gains. Representations are labeled accurately.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.		
ASL 2 Analysis of Student Performance KTS 5.4, 7.1	No discussion for 2 or more graphs or 2 or more goals; or inaccurate discussion and reflection of data results and interpretation for all learning goals. No alignment of analysis with learning goals, contextual factors, and curriculum standards for each required graph and each learning goal. No conclusions drawn from data or incorrect data used. No reference to trends and patterns in student performance. No interpretation of student misconceptions of content.	Accurate and logical description and reflection on data results and interpretation for only one learning goal; or no discussion for one graph for one or more goals; or inaccurate discussion and reflection of data results and interpretation for some learning goals. Unclear or inaccurate alignment of analysis with learning goals, contextual factors, and curriculum standards for each required graph and each learning goal; or discussion of alignment of analysis with learning goals, contextual factors, and curriculum standards is left out for one or more graphs/goals. Inaccurate conclusions drawn from data or inaccurate data used to draw conclusions. Little or no reference to trends and patterns in student performance.	Accurate and logical description, analysis, evaluation and reflection on data results to determine progress of individuals and groups toward learning goals. Identify differences in progress among student groups. Clear, accurate alignment of analysis with learning goals, contextual factors, and curriculum standards for each required graph and each learning goal. Meaningful conclusions drawn from data and reported using both percentages and raw data. Clear and accurate reference to trends and patterns in student performance. Thorough interpretation of student misconceptions of content.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.		
		Little or no reference to trends and patterns in student performance.	C I			

ASL 3 Instructional Implications from Data KTS 2.4, 7.2	Inaccurate reflection and evaluation of instructional practice for future teaching and discussion is missing for 2 or more groups or two or more goals. Inaccurate reflection and evaluation of instructional practice for future teaching or no discussion. No discussion of content/skills that need remediation or discussion is not based on data results or results are missing for 2 or more groups or for 2 goals.	Accurate reflection and evaluation of instructional practice for future teaching but discussion is missing for 2 or more groups or one or more goals; or inaccurate reflection and evaluation of instructional practice for future teaching. Insufficiently identifies small groups for specific content/skills based on data representations and clearly evaluates instructional practice in terms of specific student needs that were noted in contextual factors. Unclear description which goal the students made the most learning gains and the goal students made the least learning gains; inadequate discussion on which learning goal determined the best conceptual understanding of content and why; and inadequate discussion which learning goal provided more learning gains due to the assessment mode and why. Unclear description of 2 changes that could be made to instruction and assessment for this unit if the unit were to be taught again. Inadequate description of reinforcement and extension	Clear reflection and evaluation of instructional practice to inform future teaching. Competently identifies small groups for specific content/skills based on data representations and clearly evaluates instructional practice in terms of specific student needs that were noted in contextual factors. Thoroughly describes which goal the students made the most learning gains and the goal students made the least learning goal determined the best conceptual understanding of content and why; and discusses which learning goal provided more learning gains due to the assessment mode and why. Clearly describes 2 changes that could be made to instruction and assessment for this unit if the unit were to be taught again. Appropriately provides logical, detailed discussion of reinforcement and extension activities of this unit.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.
ASL 4 Analysis of an Individual Student KTS 1.5	Inaccurate data used for student evaluation. No conclusions drawn about the extent to which this student attained learning goals in this unit. No description of student's misconceptions about content, assessment or instruction. No discussion of student's misconceptions about content. No discussion on how formative assessments helped with instructional adjustment. No reflection of what could have been done differently. No description of next steps.	activities of this unit. Inaccurate portrayal and description of the individual student's data from pre-, formative, and post-assessments. Inappropriate conclusions drawn about the extent to which this student attained learning goals in this unit. Inaccurate description of student's misconceptions about content, assessment, and instruction or parts missing. Unclear discussion on how formative assessments helped with instruction adjustment. Collaborative efforts did not connect to student results. Inaccurate, short reflection of what could have been done differently. Little description of next steps or unclear connection of next steps to student success.	Accurate portrayal and description of an individual student's data from pre-, formative, and post-assessments along with the instruction and connection to contextual factors. Appropriate conclusions drawn about the extent to which this student attained learning goals in this unit. Accurately describes students' misconceptions about content with clear discussion on how formative assessments helped with instruction adjustment. Includes any collaborative efforts. Clear discussion on how formative assessments helped with instruction adjustment. Any collaborative efforts connect to student results. Accurate, in-depth reflection of what could have been done differently. Thorough description of next steps for individual.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and beyond the Proficient level.

		Reflection of Teaching Rubi	ic	2011		
	Reflection of Teaching Rubitc					
Criteria	Beginning	Developing	Proficient	Exemplary		
R 1 Self-assessment of KTS	Completes self-assessment of KTS standards before and after completion of TWS but leaves 3 or more standards	Completes and includes self- assessment of KTS standards before and after completion of TWS but leaves 2 or more	Completes and includes entire self-assessment of KTS standards before and after completion of TWS.	Achieves the Proficient level with minimal assistance or the first attempt and		
KTS 9.1	blank Or does not complete either pre-assessment or post- assessment of KTS standards.	standards blank.		demonstrates above and beyond the Proficient level.		
R 2 Identify Teaching Strengths	Short and disconnected discussion of 1 of the teacher's strengths as related to self-evaluation of KTS,	Short and disconnected discussion of 2 of teacher's strengths as related to self-evaluation of KTS and student learning	Appropriate, logical, detailed discussion of 2 of teacher's strengths as related to self- evaluation of KTS and	Achieves the Proficient level with minimal assistance or the first attempt and		
KTS 7.2, 7.3, 9.1	Or discussion is very vague and not related to KTS, Provides no examples from teaching experience in this unit to support discussion.	Or discussed only 1 teacher strength related to self-evaluation of KTS, Provides one example from teaching experience in this unit that is unrelated to the KTS strength discussed and student learning.	student learning. Provides one or more examples from teaching experience in this unit in revealing each KTS strength discussed.	demonstrates above and beyond the Proficient level.		
R3 Identify areas of Professional Development	Discussion of teacher's needs for improvement is not related to self-evaluation of KTS Or only one improvement is discussed.	Discussion of one or more of teacher's needs for improvement as related to self-evaluation of KTS may not be clear, logical, or appropriate.	Appropriate, logical, detailed discussion of 2 of teacher's needs for improvement as related to self-evaluation of KTS.	Achieves the Proficient level with minimal assistance on the first attempt and demonstrates above and		
KTS 7.2, 7.3, 9.1, 9.2	Description of one or more priorities for your own professional development is vague and not clearly based on specific data from self-assessment and student performance. Include a specific plan for growth.	Description of one or more priorities for your own professional development is not clearly based on specific data from self-assessment and student performance. Include a specific plan for growth.	Clearly describes 2 to 3 priorities for your own professional development based on specific data from self-assessment and student performance. Include a specific plan for growth.	beyond the Proficient level.		

Student Learning Outcome 2: SMED 470 Problem-Based Unit of Instruction Final Project Rubric and Final Presentation Rubric Part I.

<u>Instructions:</u> Students are assigned to groups of 1-3 students to develop a 1-week Project-Based Instruction Unit Plan.

<u>Final Project Checklist</u>: The completed final project will be submitted both electronically and in hard copy and counts for **200 points** of your final grade in this class. All group members MUST participate equally in the production of the final project AND in the final project presentation. **DUE** DATE: _____

Component (points)	Descriptions
1) Introduction: (15)	Overview of project providing:

- a) <u>Title-Includes the PBI title and all group members</u> names
- b) <u>Target Audience</u> For what grade level or course is this project intended?
- c) Project Description Includes time frame for unit completion as well as a brief discussion of the central theme or concepts and the scope and sequence of lessons including student milestones and final product.
- d) <u>Driving Question/Grand Challenge</u> *Provides the focus for the Project-based unit and meets criteria for a driving question as discussed in this class.*
- e) <u>Overall Goals</u> Narrative describing how the individual lessons will develop the "big ideas" about the project's underlying science. Puts the project objectives into a larger context.
- f) <u>Project Objectives</u> –Lists specific skills, knowledge or products that "students will be able to…" do or complete by the end of the project.
- g) Rationale Describes the reason this project is significant and should be done. Sells the project to a wider audience of parents, school administrators, experts in the fields, etc.
- h) <u>Background</u> Provides more detailed description of scientific and mathematic content and concepts that teachers and students will need to understand to develop a quality product. Should refer explicitly to the Final Concept Map submitted with this project.
- h) <u>Standards</u> Lists the NCTM/NGSS and KYCORE objectives and standards for the discipline (mathematics, science or computer science) that will be introduced, developed or demonstrated in this project-based unit.
- i) <u>Go Public</u> Describes the student product in some detail, how the product will be presented to the community and provides a rubric to assess the quality of the final product.

Multiple Perspectives Videos-At least 2(10) Generate Ideas Handout(5)	Should engage students directly with the problem/ phenomenon to be explored or investigated; should help to make the abstract math or science concepts more concrete; should be situated in real world events or experiences that are identifiable and relevant. For information about the theory, history, how to and archive, go to: http://www.edb.utexas.edu/anchorvideo/howto.php
3) Project-based Scenario Concept Map (5)	"Concept maps are a form of graphical representation in which students arrange and label nodes and links to show relationships among multiple concepts in a domain; they are intended to elicit students' understanding of a domain's conceptual structure." (p. 265, Knowing What Students Know, 2001, NAS Press, found on-line at http://www.nap.edu/openbook.php?isbn=0309072727)
4) Project Calendar (10)	Detailed list of activities, sequenced daily over the entire course of the project duration of approximately 2 weeks in length.
5) Lesson Plans (2-6 plans depending on group size) (100 points total)	A minimum of 2 lesson plans per group member; one lesson should be a KTIP benchmark lesson and one lesson should be a 5E investigation. Discussion and examples of these are provided in class.
5a)Go Public Lesson Plan(20)	Final Conclusions that students display. Examples: Oral presentation; poster/project; role play. MUST include an evaluation rubric.
6) Letter to parents (10)	Explains purpose of the project, student artifacts and/or final products and describes any materials that may have to be purchased by students as well as any financial support you can offer as needed. Finally, invites parents to the presentations of final products. *Must be professionally written in business style.
7) Resources (5)	List ALL resources necessary for completion of the project, including equipment for each lesson plan activity, web sites for student information gathering, experts in the field, locations for field study visits, etc.

Part II.

Assignment: PBI Final Project Presentation	DUE DATE:	
--	-----------	--

<u>Instructions:</u> Students are to develop and deliver a presentation based on their Project-Based Instruction Unit Plan. This assignment is worth 50 points.

Presentation Requirements:

• Make a 12-15 minute formal final project presentation following the directions below. Prepare and present a power point talk with the following 5 slides. Each person on your team will speak for AN EQUAL AMOUNT OF TIME during the final presentation power point OR everyone on the team will lose points!

Slide 1) Grand Challenge

- a. Describe how this driving question provides the focus and scope for BOTH the problem-based scenario that introduces the unit and the open-ended project-based unit that follows;
- b. Discuss how this Grand Challenge accomplishes meets the state and National Standards intended.
- c. Describe the objectives that students are expected to master by completing this project.

Slide 2) Anchor Video (Grand Challenge Video)

- a. Show the anchor video.
- b. Describe how the video anchors instruction for your unit (both the problem-based introduction and the project-based follow up) and engages the students with the math and/or science concepts that will be uncovered and investigated deeply during the project-based unit;

Slide 3) Project Components

- a. Share the project calendar, discussing the essential components, such as the 5E lessons;
- b. Describe or elaborate on how you will manage this project work, including how you will assess when scaffolds are needed for students during the project development.

Slide 4) Final Project Evaluation /Rubric

- a. Describe your expectations for an excellent, adequate and an unacceptable student product and/or presentation
- b. Share your final project evaluation rubric, describing how or why you have assigned the points to each required component;
- c. Describe how you will manage the final presentations (for example, as a seminar or trade show?) and who you will invite to participate as evaluators.

Slide 5) Lessons Learned by your team while preparing this PBI unit

Tell us what you have learned about developing, designing, modifying and working collaboratively on this unit.

Total possible points = 50

RUBRIC FOR COMPREHENSIVE ANALYSIS: _____/100

ITEM (POINTS)	BEGINNING (1)	DEVELOPING (2)	PROFICIENT (3)	DISTINGUISHED (4)
	(0-13)	(14-16)	(17-19)	(20)
Analysis Of Engagement (20 Points)	Student provides a partial, perhaps irrelevant, answer to the prompt. There is little evidence of understanding. Major grammar, spelling, or syntax errors exist.	Student provides a partial answer to the prompt. There is some evidence of understanding. Grammar, spelling, or syntax errors are present.	Student provides answers for all parts of the question. Explanations could be more explicit. There is evidence of clear understanding. Minor grammar, spelling, or syntax errors exist.	Student provides answers for all parts of the question. All explanations are clear and concise. There is evidence of clear understanding. Grammar, spelling, and syntax are flawless.
	(0-13)	(14-16)	(17-19)	(20)
Analysis Of Questioning (20 Points)	Student provides a partial, perhaps irrelevant, answer to the prompt. There is little evidence of understanding. Major grammar, spelling, or syntax errors exist.	Student provides a partial answer to the prompt. There is some evidence of understanding. Grammar, spelling, or syntax errors are present.	Student provides answers for all parts of the question. Explanations could be more explicit. There is evidence of clear understanding. Minor grammar, spelling, or syntax errors exist.	Student provides answers for all parts of the question. All explanations are clear and concise. There is evidence of clear understanding. Grammar, spelling, and syntax are flawless.
	(0-13)	(14-16)	(17-19)	(20)
Analysis Of Cooperative Learning (20 Points)	Student provides a partial, perhaps irrelevant, answer to the prompt. There is little evidence of understanding. Major grammar, spelling, or syntax errors exist.	Student provides a partial answer to the prompt. There is some evidence of understanding. Grammar, spelling, or syntax errors are present.	Student provides answers for all parts of the question. Explanations could be more explicit. There is evidence of clear understanding. Minor grammar, spelling, or syntax errors exist.	Student provides answers for all parts of the question. All explanations are clear and concise. There is evidence of clear understanding. Grammar, spelling, and syntax are flawless.
	(0-6)	(7-8)	(9)	(10)
Other Aspects Of Instruction (10 Points)	Student provides a partial, perhaps irrelevant, answer to the prompt. There is little evidence of understanding. Major grammar, spelling, or syntax errors exist.	Student provides a partial answer to the prompt. There is some evidence of understanding. Grammar, spelling, or syntax errors are present.	Student provides answers for all parts of the question. Explanations could be more explicit. There is evidence of clear understanding. Minor grammar, spelling, or syntax errors exist.	Student provides answers for all parts of the question. All explanations are clear and concise. There is evidence of clear understanding. Grammar, spelling, and syntax are flawless.

	(0-20)	(21-25)	(26-29)	2011 6
Comprehensive Reflection (30 Points)	Incomplete reflection with no emphasis on how improvement of teaching skills will be measured.	Incomplete reflection with little emphasis on how improvement of teaching skills will be measured.	Comprehensive reflection identifies strengths and weaknesses and how to improve. Student identifies how improvement of teaching skills will be measured.	Comprehensive and insightful reflection demonstrating recognition of strengths and weaknesses and how to improve. Student identifies how improvement of teaching skills will measured.