		Observing MEES Standards/Indicators	Developing MEES	Demonstrating MEES Standards/Indicators
Types of Videos	Interviews with Students ¹ (p. 136-137)	Standard 2	Standards/Indicators Indicator 7.1	Indicator 7.2 (if student understanding from the interview is then used as evidence to plan possible future instruction)
	Videos of Classroom Lessons ¹ (p. 137) (Unedited, full-length videos ² – p. 343 - that provide a more authentic experience of normal instructional routines and show how elements of the classroom are inter-related)	Indicators 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 3.1, 3.2, 4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3, 6.1, 6.2, 6.3, 6.4, 6.5, and 7.1 depending on the focus		
	Pre-Service Teacher Selected <u>Videos</u> ¹ (p. 137) (Having pre-service teachers find examples of strategies for visible student thinking and effective questioning)	Provides opportunities for indicators 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 3.1, 3.2, 4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3, 6.1, 6.2, 6.3, 6.4, 6.5, and 7.1 through searching for and watching videos	Indicators 1.1, 1.2, and 1.3 and Indicator 2.2 (by exposing pre-service teachers to more strategies to implement) Indicators 4.1, 4.2, 4.3 and 4.4 Indicator 8.1	Indicators 4.1 and 4.2 (if selecting videos that show effective strategies for visible student thinking) Indicators 4.3 and 4.4 (if selecting videos that show effective questioning) Indicator 8.1
ria	Focus on the Content Portrayed ¹ (p. 137- 139) (including a variety of subjects, instructional strategies, procedures, and student activities)	Indicators 1.1, 1.2, and 1.3 Indicator 3.1	Indicators 1.1, 1.2, and 1.3 Indicator 3.1	
Video Selection Criteria	<u>Teaching that</u> <u>Makes Student</u> <u>Thinking Visible</u> ¹ (p. 137-139) (Including clear audio of teacher-student or student- student interactions or clear images of student work)	Indicators 4.1, 4.2, 4.3, and 4.4 Indicator 5.2	Indicators 4.1, 4.2, 4.3, and 4.4 Indicators 7.1	Indicators 7.1 and 7.2 (if student learning is used to monitor student progress then as evidence to plan possible future instruction) Indicator 8.1 (if student thinking is used to reflect on the effectiveness of the lesson)
>	<u>A Diversity in the</u> <u>Backgrounds of</u> <u>the Students and</u> <u>Teachers¹ (p. 137-139)</u> (A variety of SES and ethnic backgrounds)	Indicators 2.1, 2.2, and 2.3 Indicators 6.2, 6.3, and 6.5	Indicator 2.3 Indicator 6.5	

-				
	Shared Viewing ³	Indicators 9.1 and 9.2	Indicators 8.1, 8.2, and	Indicators 8.1, 8.2, and
	(Pre-service teachers and		8.3	8.3
	instructors viewing lessons at the same time and		Indicators 9.1 and 9.2	Indicators 9.1 and 9.2
	following them with			
	collaboration, discussion,			
	and critical reflection)			
	Pre-Service	Indicators 1.1, 1.2, 1.3,	Indicators 2.1, 2.2, and	
	Teachers Deriving	2.1, 2.2, 2.3, 3.1, 3.2,	2.3: Noticing and inferencing	
	Information About	4.1, 4.2, 4.3, 4.4, 5.1,	differentiations based on students' needs and interests	
	the Classroom ²	5.2, 5.3, 6.1, 6.2, 6.3,	Indicator 5.3: Noticing and	
	(p.339)	6.5, 7.1, 7.2, & 7.3	identifying proactive classroom	
	(Rather than being told the	depending on the focus	management strategies	
	information ahead of time –			
	ex.: being told to look for			
	the rules while observing			
	rather than being given the rules beforehand – more			
	effective at promoting			
	reflective thinking)			
	Worksheets to	Indicators 1.1, 1.2, 1.3,	Indicator 1.4	Indicator 8.1
	Guide	3.1, 3.2, 4.1, 4.2, 4.3,	Indicators 2.1, 2.2, and	(if used to then discuss the
SSS	Observations ²	4.4, 5.1, 5.2, 5.3, <mark>6.1</mark> ,	2.3	lesson and reflect on the effectiveness of the observed
)CE	(p.342)	6.3 , 7.1, & 7.2	Indicator 3.1	tasks)
Watching Process	(p.342) (Cognitively prepares pre-	depending on the focus	Indicators 4.3, and 4.4	-1
	service teachers by	of the observation tasks	(For the indicators above:	
	developing observation		evidence shows that pre-service teachers are able to focus more	
	skills with the guidance of an instructor ⁴ – p. 298)		on student learning, engagement,	
	$\frac{\text{an instructor}}{\text{an instructor}} = p. 296)$		and critical thinking after	
-			developing observation skills ^{2 4}) Indicator 8.1	
	Pocording	Indicators 1.1, 1.2, 1.3,	Indicators 1.1, 1.2, 1.3,	Indicator 7.2 (if critiques to
	Recording	1.4 , 3.1, 3.2, 4.1, 4.2,	1.4 , 2.1, 2.2, 4.1, 4.2, 4.3,	the used methods and their
	Instructional	4.3, 4.4, 5.2, 5.3, 6.1,	4.4, and 6.1 depending	outcomes on student learning
	Methods or	6.3, 7.1, & 7.2	on the methods	are then used to plan possible
	Techniques and	depending on the focus	recorded and critiqued	alternative instruction)
	their Positive and	acpending on the locus	Indicators 7.1 and 7.2	Indicator 8.1
			Indicator 8.1	
	Negative Effects ²			
	(p. 342 & 348) (Provides a more targeted			
	approach to early			
	observations and practice			
	reflecting on the			
	effectiveness of different methods)			
	,	Indicator 8.1	Indicator 8.1	Indicator 8.1
	Text Chat Features	Indicators 9.1 and 9.2	Indicators 9.1 and 9.2	Indicators 9.1 and 9.2
	During	11010ators 5.1 driu 5.2	111111111115 5.1 dilu 3.2	
	Observations ³ (p.			
	429-430)			
	(including the pre-service			
	teachers and instructors)			

_	I			
	Lesson Analysis			
iework	Framework			
	(Santagata & Guarino:			
	<u>"Using Video to Teach</u> Future Teachers to Learn			
	From Teaching") ¹			
	1. Identifying	Indicators 3.1 and 3.2	Indicator 3.2	Indicator 3.2
	Lesson Learning			
	Goals			
	2. Analyzing	Indicators 4.1, 4.2, 4.3,	Indicator 7.1	Indicator 7.1
an	Student Thinking	and 4.4		
Lesson Analysis Framework	and Learning (Through visible student learning or student work examples)			
	3. Constructing	Indicators 1.1, 1.2, 1.3,	Standard 2	Indicator 7.1
	Hypotheses About	1.4, 2.1, 2.2, 2.3, 3.1,	Indicator 7.1	Indicator 8.1
Les	the Effects of	4.1, 4.2, 4.3, 4.4, 5.1,	Indicator 8.1	
_	Teaching on	5.2, 5.3, 6.1, 6.2, 6.3, 6.4, and 6.5 depending		
	Students' Learning	on the lesson observed		
	4. Using Analysis	Indicator 2.2	Indicator 2.2	Indicator 2.2
	to Propose	Indicator 3.1	Indicator 3.1	Indicator 3.1
	Improvements in	Indicators 4.1, 4.2, 4.3,	Indicator 4.4	Indicator 4.4
	•	and 4.4	Indicators 7.1 and 7.2	Indicators 7.1 and 7.2
	Teaching		Indicator 8.1	Indicator 8.1
	<u>Ongoing</u>	Indicators 8.1	Indicators 8.1	Indicators 8.1
	Discussion Threads	Indicators 9.1 and 9.2	Indicators 9.1 and 9.2	Indicators 9.1 and 9.2
s	Among Pre-Service			
tie	Teachers,			
i,	Instructors, and In-			
Act	Service Mentor			
ng	Teachers ³ (p. 429-430)			
chi	Small-Group then	Indicators 1.1, 1.2, 1.3,	Indicators 2.1 and 2.2:	Indicator 8.1
Post-Watching Activities	Whole-Group	1.4, 4.1, 4.2, 4.3, 4.4,	Inferencing differentiations	
	Debriefs ² (p. 343)	5.1, 5.2, 5.3, 6.1 and 6.3	based on students' needs and interests	
	(where lessons are	depending on the focus	Standard 3: Recognizing the	
	reinterpreted to make		importance of long-range	
	inferences about the complexity of planned		planning and curriculum development	
	classroom instruction)		Indicator 8.1	
	;		Indicator 0.1	

¹ Santagata, R., Guarino, J. Using video to teach future teachers to learn from teaching. *ZDM Mathematics Education* **43**, 133–145 (2011). <u>https://doi.org/10.1007/s11858-010-0292-3</u> Great resource for all levels of field experiences and includes the lesson analysis framework

² Salajan, F., & Duffield, S. (2019) Enhancing Pre-service Teachers' Professional Practice Through Reflection on the Action of Others: The Development of the Heterospective Reflection Framework Informed by Virtual Field Experiences, The Teacher Educator, 54:4, 333 358. <u>https://doi.org/10.1080/08878730.2018.1557309</u> Includes a lot of information on guiding beginning field experiences and developing observation skills

³ Heafner, T., & Plaisance, M. (2012). Shared viewing as an approach to transforming early field experiences. *Contemporary Issues in Technology and Teacher Education, 12(4).* Retrieved from https://citejournal.org/volume-12/issue-4-12/current-practice/sharedviewing-as-an-approach-to-transforming-early-field-experiences/

Presents ideas that are more similar to culminating field experiences that include professional collaboration and reflection

⁴ Hixon, E. & So, H.J. (2009). Technology's Role in Field Experiences for Preservice Teacher Training. *Journal of Educational Technology & Society*, *12*(4), 294-304. Retrieved June 23, 2020 from <u>https://www.learntechlib.org/p/74980/</u>.

Reviews the pros and cons of both traditional and virtual field experiences and provides research and evidence for cognitively preparing pre-service teachers to benefit more from observations