

Eliciting Evidence: Engaging All Students



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About This PDF Document

This is an interactive PDF with navigation that functions on desktop

CONTENTS computers, tablets, and smartphones.

Monitoring The function My Progress

- Formative Assessment Process
 - Questions about Questioning
 - Say Something
 - Eliciting Evidence
 - from ALL Students
 - Learning Centers
- Classroom Implications
 - Plan Components
- Lesson Planning Tools
 - Sharing Your Plan

- The functionality consists of:
- a Table of Contents that jumps directly to each section
- $\cdot\,$ page navigation to move forward and back through the PDF
- + fillable text fields indicated by a blue background color
- check boxes to make selections

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Monitoring My Progress

CONTENTS <u>Monitoring</u> <u>My Progress</u>		New to me	l can define it, but may not yet understand it	l get it	l can teach it	l can apply it in another way	What questions do I have? Add more questions, connections, or thoughts throughout the day.
Formative Assessment	Connect current practice to research about why we should elicit evidence of learning						
Process	Now						
Questions about Questioning	My goal is						
Say Something Eliciting Evidence	Later						
from ALL Students	Identify strateg	ies to engage all students in providing evidence of learning					
<u>Classroom Implications</u>	Now						
Plan Components Lesson-Planning Tools	My goal is						
Sharing Your Plan	Later						
	Outline how to	make adjustmer	nts based on the	data collected		I	
	Now						
	My goal is						
	Later						
	Identify elemer	nts of a plan for e	engaging all stude	ents in providing e	evidence	·	
	New						



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- $\cdot\,$ What percentage of teachers' questions is concerned with recalling facts?
- What percentage of teachers' questions is concerned with managing the class?
- What percentage of questions asked caused students to analyze or make inferences?
- How many questions does the average teacher ask in a working lifetime of 40 years?

Say Something

Quote 1

The goals of assessment in support of prospective learning require a *present-to-future* perspective, in which the concern is not solely with the actual level of performance but with anticipating future possibilities. (Heritage 2013)

Quote 2

Griffin argued that humans can only provide evidence of cognitive and affective learning through four observable actions: (1) what they say, (2) write, (3) make, or (4) do. (Heritage 2013, Griffin 2007)

Quote 3



Shavelson suggested that to find the gap between what students know and what they need to know . . . teachers need to develop a set of central questions that get at the lesson. Additionally, teachers have to know the right moment to ask these questions so that they can enable students to reveal what they understand and what evidence they can provide to back up their knowledge. (Heritage 2013, Shavelson 2008)

Quote 4

Erickson introduced the notion that there can be threats to the "formativity" of formative assessment (p.189). He argued that for assessment to be formative it must be both timely and produce information that can inform teaching practice during its ongoing course. For this reason, the immediate or proximate timing of evidence is a key component of formative assessment validity. Moreover, and in addition, for formative assessment to be valid it must also yield tractable insights: insights into students' current learning status that are sufficiently tractable to be used in subsequent pedagogical moves. (Heritage, 2010, 2013; Erickson 2007)

McMillan, James H., ed. SAGE *Handbook of Research on Classroom Assessment*. Thousand Oaks, CA: SAGE Publications, 2013.

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Learning Centers

Classroom Implications

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What purpose do all-student response systems (ASRSs) support?

Strategic questions:

- Promote formative discourse
- Are planned
- Clarify student thinking
- Incorporate wait time
- Generate actionable results

Affective questions:

- Self-assessment practice
- Self-reflection practice
 - Where did you succeed in your learning today?
 - What challenges did you encounter?
 - How did you manage the challenges?



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Learning Centers

Learning Center 1: Strategy Jigsaw: In a small group, explore a variety of strategies designed to elicit evidence of learning (or not) from students. Engage in dialogue about what moves the strategy beyond just a good strategy to make it formative. Identify one to two strategies to use in your classroom.

Learning Center 2: Digital Tool Exploration: With a partner investigate free digital tools that support eliciting evidence of student learning. Collect information about the tool as well as notes regarding using the tool in a formative manner.

Learning Center 3: Strategy Use Continuum of Practice: Work in small groups to develop a continuum of what using specific all-student response systems look like at four levels within a classroom. Levels include Accomplished, Developing, Exploring, and Unaligned.





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Monitoring My Progress

Questions

Formative Assessment **Process** Strategy Jigsaw

- 1. Form groups of three.
- 2. Use the table below.
- 3. Each person reads and shares two or three of the strategies and implementation notes.
- 4. Engage in dialogue about what moves the strategy beyond just a good strategy to make it formative.

about Questioning	STRATEGY	DESCRIPTION	IMPLEMENTATION NOTES	
Say Something Eliciting Evidence	Anticipatory Guide	The teacher generates three to six statements about a topic, some true and some false. These statements are related to key ideas supporting learning targets. Typically used as a pre-/post-assessment, these data help identify	Model the process with students when introducing the strategy. Explain how the evidence (data) will be used pre and post.	
from ALL Students Learning Centers > Learning Center 1		understandings and misunderstandings, which the teacher uses to adapt the lesson as needed.	May be completed by students individually and not shared or may be recorded on charts anonymously with dots or checks.	
> Learning Center 2	Class Poll (ABCD cards,	The teacher surveys the class for students' attitudes toward (affective) or thinking (cognitive) about a certain topic. The teacher quickly and efficiently	In the beginning it may be useful to have students respond anonymously, later moving	
> Learning Center 3 Classroom Implications	Clickers)	asks students what their opinion or "gut feeling" is toward a specific topic/ idea. The teacher then performs a short assessment of the results and	to public responses. This is not data collection for graphing purposes.	
<u>Plan Components</u>		incorporates the information into the lesson in a way that contributes to student learning.	Students can respond to a short question orally, by a show of hands, devices, or the use of cards.	
Lesson-Planning Tools	Consensogram,	This strategy helps teachers and students assess needs, attitudes, or	Use pre/post with different colored marks.	
Sharing Your Plan	Histogram, Scatterplot	knowledge. The teacher poses a question and asks each student to record his or her thoughts on a chart that everyone can see. Once everyone has placed his or her mark on the chart, the teacher and class analyze the	In place of charts, have students stand in lines to represent where they would fall on the scale.	
		results and determine next steps.	The use of a scatterplot allows the teacher to collect pieces of data at the same time. It can also be done either on chart paper or by having students stand between axes.	
	Individual Response Boards	The teacher asks or presents a question and waits an appropriate amount of time while students write responses on whiteboards, and then the students individually and simultaneously hold up their boards for the teacher to see. This is an example of an all-student response system that helps the teacher quickly get a sense of what students know or understand while engaging all students in the class. The teacher may choose to orally ask the questions or to present them to the class digitally or written on the board. Students	A whiteboard may be simulated with a white sheet of cardstock inserted into a clear, plastic transparency sleeve or a plastic plate. It usually includes a dry-erase marker and a wiper tissue/cloth. For other purposes such as graphing or geography, a sheet of graph paper or a map of	
		answer one or more well-designed questions that reveal information about their understandings and misunderstandings, which the teacher uses to adapt the lesson as needed.	the area may be inserted into the plastic sleeve.	

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Strategy Jigsaw, continued

Monitoring	STRATEGY	DESCRIPTION	IMPLEMENTATION NOTES
My Progress	Signal Cards	This is an example of an all-student response system that helps the teacher	Materials vary between cups, cards, and discs.
Formative Assessment Process	(Green-Yellow- Red)	quickly get a sense of what students know or understand while engaging all students in the class. Students answer one or more well-designed, multiple-choice questions that reveal information about their understandings,	Discs can be made by laminating together two circular pieces of colored (red and green) plastic.
Questions about Questioning		misunderstandings, and misconceptions. These questions may be affective in nature. Students use discs, cards, or other red/green materials to indicate that	
Say Something		they understand (green) or that they need the teacher to slow down or provide help (red). The teacher must pay consistent attention to the student signals,	
Eliciting Evidence from ALL Students		and makes decisions about when and how to interrupt the flow of the lesson to address these. The teacher confirms that students signal their understanding appropriately.	
Learning Centers > Learning Center 1	Two-Tiered Probe	This strategy is a combination of asking a selected response question and having students respond with cards, hand signals, or clickers followed by	Remember when introducing a new strategy that it is easier for students to learn when using
 Learning Center 2 Learning Center 3 		whiteboard justification. This probing method allows teachers to gather initial responses and to glimpse student thinking behind the response.	a combination of tools with which they are already familiar.
<u>Learning Center 5</u>	Where Do	This strategy is useful for identifying preconceived notions, assumptions,	Physical movement is important. Letting students
Classroom Implications	You Stand?	background knowledge, and information gaps. It also moves students to	physically see whom they stand with and whom
Plan Components		become instructional resources for one another. Provide students with two options, and have them physically move to stand on one of two places based	they don't stand with provides resources to tap into later.
Lesson-Planning Tools		on what they know. A potential third option is "don't know."	
Sharing Your Plan			

Digital Tool Exploration

- 1. Work with a partner.
- 2. Use the table below.
- Formative Assessment Process

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My Progress

- **Ouestions** about Questioning
 - Say Something

Eliciting Evidence from ALL Students

- **Learning Centers**
- > Learning Center 1
- > Learning Center 2
- > Learning Center 3
- **Classroom Implications**
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- Lesson-Planning Tools
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- 3. Complete the table by investigating the digital tools and collecting information important to remember regarding the description of the tool, options available within the tool, and notes to remember about using the tool. Use the blank rows for any additional tools.
- 4. Discuss which tool you will be willing to try in your classroom and how you will use it.



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CENTER 2

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Monitoring My Progress

Formative Assessment **Process** Strategy Use Continuum of Practice

- 1. Each strategy looks a little different in its levels of implementation, but some general principles are used in writing the description of each level.
- 2. Work in groups of three or four.
- 3. Take an ASRS currently used in your classrooms, and develop a continuum of practice, identifying potential look-fors at four levels.

<u>Questions</u> about Questioning	ACCOMPLISHED	DEVELOPING	EXPLORING	UNALIGNED
Say Something Eliciting Evidence from ALL Students Learning Center 1 > Learning Center 2 > Learning Center 3 Classroom Implications	The strategy is used in a way that generates high-quality data about student learning from all students. The teacher is able to analyze the data, and then uses the results of that analysis to influence future instruction or learning, either in the same lesson or the next lesson.	The strategy is used in a way that generates decent data on student learning, and the teacher gains a better understanding of where student learning stands as a result. The teacher doesn't appear to do much with the information.	The strategy is implemented weakly, so that the data collected are low quality and therefore of limited use in planning next steps. The strategy is used in a way that provides an opportunity for data to be collected about student un- derstanding, but the teacher does not analyze or do anything with that information.	 The strategy is used in a way that is not formative and does not have the potential to be formative: The strategy is used in a ritual- istic manner (going-through the motions). The strategy is used in a context or manner that changes its original purpose so that it is not formative. It may be used for classroom
Plan Components				management purposes.
Lesson-Planning Tools	All-Student Response System			
Sharing Your Plan	Questions used cover both affective and cognitive demands.	Questions are a mix of cognitive and affective.	Questions focus on affective. Responses are public.	Student participation is limited. Tool is primarily used for
	Students respond both anonymously and publicly.	Responses may be made anony- mously or publicly.		classroom management.
	Used as both pre-assessment before instruction and checks for	The teacher offers limited discus- sion and feedback.		Responses allow students to be singled out.
	understanding during instruction.			Data collection is not obvious.
	The teacher shares data collected with students.			
	Results are used to make adjustments to instruction, allow students to engage each other as resources, or serve as feedback.			

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Strategy Use Continuum of Practice, continued

CONTENTS	Strategy Use Continuum of Practice, continued							
Monitoring	ACCOMPLISHED	DEVELOPING	EXPLORING	UNALIGNED				
<u>My Progress</u> Formative Assessment	ABCD Cards (all students have ABCD cards, which	ABCD Cards (all students have ABCD cards, which they hold up to answer a multiple-choice question (MCQ))						
Process Questions about Questioning Say Something Eliciting Evidence from ALL Students Learning Centers > Learning Center 1 > Learning Center 2 > Learning Center 3	The teacher skillfully uses ABCD cards: all students are engaged in answering one or more well- designed MCQs that reveal their understandings and misunderstandings. The teacher uses the results to organize the ensuing discussion/ lesson.	The teacher uses ABCD cards in a way that engages all students, and with a reasonably good MCQ(s) for this purpose. The teacher makes limited use of the information that results.	The teacher uses ABCD cards as a way to ensure more students participate. The information collected doesn't appear to cause any adjustments. The teacher does not address incorrect answers. The MCQ(s) is poorly chosen/ written. Student responses are not probed.	Participation of a few students is accepted by the teacher. The cards are used for classroom management or to set students up.				
Classroom Implications Plan Components Lesson-Planning Tools Sharing Your Plan	 The teacher skillfully uses whiteboards: all students are engaged in answering one or more well-designed questions that reveal their understandings and misunderstandings. The teacher uses evidence to adapt the lesson as needed. Sharing helps students take more ownership of the learning process, which leads to better understand- ing class-wide, and is used to illustrate multiple pathways to a good answer or to illustrate/ counteract misconceptions. 	ual whiteboards and hold them up for The teacher uses whiteboards in a way that engages all students, and with a reasonably good question. The teacher becomes more aware of students' strengths/weaknesses. No apparent adaptations are made.	The teacher uses whiteboards as a way to ensure more students participate. The students' responses do not lead the teacher to change from the original instructional plan. The question used is not well designed or not well suited for whiteboard responses, so the quality of the resulting data makes the question impossible to use. Student responses are not probed.	Whiteboards are used as scratch paper, and seldom or never held up. Participation of a few students is accepted by the teacher.				

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Strategy Use Continuum of Practice, continued

Monitoring	ACCOMPLISHED	DEVELOPING	EXPLORING	UNALIGNED
My Progress				
Formative Assessment				
Process				
Questions				
about Questioning				
Say Something				
Eliciting Evidence from ALL Students				
Learning Centers				
> <u>Learning Center 1</u>				
> Learning Center 2				
> Learning Center 3				
Classroom Implications				
<u>Plan Components</u>				
Lesson-Planning Tools				
_				
Sharing Your Plan				

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Classroom Implications

Engaging All Students

Monitoring My Progress	1. When I use response cards with my class, I notice that some students copy the responses from their neighbors' cards instead of thinking of their own answers. What should I do about this?
Formative Assessment Process	
Questions about Questioning	
Say Something	
Eliciting Evidence from ALL Students	2. How do you set up using an all-student response system in your class so that public responses are "safe"?
Learning Centers	
Classroom Implications	
Plan Components	
Lesson-Planning Tools	
Sharing Your Plan	
	3. When and where would you use both cognitive and affective questions? Identify as beginning, middle, or end of a lesson.

4. How can you use think-alouds to process the data collected via an ASRS and to engage students?



Plan Components

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Lesson-Planning Tools

Sharing Your Plan



• Planning tools



Without an attempt to support or influence new learning from the evidence, the label 'formative assessment' cannot be applied to the process of evidence gathering. Instead, the term 'dangling data' (Sadler 1989, 121) is more apt.

> – SAGE Handbook of Research on Classroom Assessment



NEXT>> Lesson-Planning Tools

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<u>Monitoring</u> My Progress			
Formative Assessment Process	Class	Date	
Questions about Questioning	Learning target		
Say Something Eliciting Evidence from ALL Students	Strategy	Why (or reasoning)	
Learning Centers Classroom Implications Plan Components	Adjustments, changes, adaptations	Support/resources needed	
esson-Planning Tools > <u>Template 1</u> > <u>Template 2</u>	Lesson outline and prep		
<u>Template 3 (Example)</u> > <u>Template 3</u> <u>Sharing Your Plan</u>	Practice goals		
	Do less of		
	Evidence of student learning or success of strategy		
	Reflection		
	Next steps		

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	Drich	

Responsive Lesson Plan

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Monitoring			TEMPLATE 2			
My Progress	LEARNING TARGET	SUCCESS CRITERIA				
Formative Assessment <u>Process</u>						
Questions						
about Questioning						
Say Something						
Eliciting Evidence	How and when will I gather evidence of learning in					
from ALL Students	BoL	MoL	EoL			
Learning Centers						
Classroom Implications						
Plan Components						
Lesson-Planning Tools	When will I offer feedback to students?					
> <u>Template 1</u>	BoL	MoL	EoL			
> <u>Template 2</u>						
> <u>Template 3 (Example)</u> > <u>Template 3</u>						
<u>remplate 5</u>						
Sharing Your Plan						
	How and when will students assess their learning?					
	BoL	MoL	EoL			
	How and when will I use the results of the evidence I collect?					
	BoL	MoL	EoL			
•						

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Responsive Lesson Plan (example)



Monitoring						EXAMPLE
<u>My Progress</u> Formative Assessment	1. Class on which to focus:	2. Subject on which to focus:	4. How will I elicit eviden all students?	ce of learning from	5. Adjustment options:	
Process	1st Period Math	Math	When:		Option A:	
Questions			Pre-assess before the less	son begins	Results of pre-assessme	nt indicate 75% already
about Questioning			Check for understanding	after "I do, We do"	can successfully solve tw tions; ask for clarifying	vo-step linear equa- auestions and move to
Say Something			Check at end of lesson		multistep equalities	
Eliciting Evidence	Learning target:	3. Standards on	11			
from ALL Students		which to focus:	How: Pre-assess with Anticipat	orv Guide	Option B:	
Learning Centers	Solve two-step linear equalities	Operations and Algebraic Thinking		ory Guide	Results of pre-assessme divide class into two gro	nt show 50/50 split; pups
Classroom Implications					Option C:	
Plan Components						
Lesson-Planning Tools						
> Template 1						
> <u>Template 1</u>	Success criteria:			Goals for myself:		Resources to remember:
 Template 3 (Example) 	Identify key pieces of a	a word problem to set		Integrate three to four	formative assessment	Teach.Learn.Grow –
	up equalities		strategies into the les.		son NWEA Blog	
> <u>Template 3</u>	Multiply without error	S		Plan the questions to	use, the adjustment	Teaching Channel
Sharing Your Plan				triggers, and the optio on two to three differe	ons for instruction based	
-						
	6. Tools/Resources					

Responsive Lesson Plan CONTENTS **TEMPLATE 3** Monitoring My Progress 1. Class on which 2. Subject on which 4. How will I elicit evidence of learning from 5. Adjustment options: Formative Assessment to focus: to focus: all students? **Option A: Process** When: Questions about Questioning Say Something **Option B:** Learning target: 3. Standards on Eliciting Evidence which to focus: How: from ALL Students Learning Centers **Option C: Classroom Implications** Plan Components **Lesson-Planning Tools** > Template 1 **Resources to** Success criteria: Goals for myself: remember: > Template 2 > Template 3 (Example) > <u>Template 3</u> Sharing Your Plan 6. Tools/Resources

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How well do the activities and assessments align with the intended la

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a. How well do the activities and assessments align with the intended learning?

b. What options exist for potential adjustments?

c. What options exist for students to use results?



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