

### **Timer & Counter Elements**



Timer/counters are a series of specialized elements that provide you with the ability to count ( the number increases each time you tap the '+' icon, and decreases each time you tap the '-' icon), and to time events (the timer stop watch starts timing the first time you tap the timer icon, and stops when you tap it a second time.) In some configurations with multiple timers , when there are a series of things that can be timed, a stop watch begins recording time when you tap it, and stops recording time when you tap a different timer. If you return to a timer, the time continues from where it left off.

Available Timers and Counters

- **The Standard Form** (Fig. 1) which has up to fourteen rows, each with a timer or a counter (there can be a mixture)

- **The Comparison Form** (Fig. 2) which has two columns of timers and counters (the timers in each column work independently of each other) for making comparisons

- **The Teacher Placement Form** (Fig. 3) which presents a classroom configuration with 9 timers which is used to record how much time the teacher spends in each of the 9 defined classroom areas, engaging or making eye contact, or standing/walking there. You can also optionally count one or two things, and in figure 3, gender interactions are counted.

- **The Response Timer Form** (Fig. 4) which starts timing when a teacher asks a question and stops when you select an action such as 'the teacher answers', ' a student answers', or 'the teacher gives a prompt'. Each time the action is selected, it is counted incrementally, and the time is also recorded incrementally. The purpose of this particular configuration is to indicate that on the average, the teacher waits xx seconds before giving the students a prompt. This is useful when you want to point out to a teacher that he or she does not give the students a chance to digests a question before giving them clues.

- **The Rubric Form** (Fig. 5) which displays four descriptive rubrics and allows you to accumulate the time the observer dwells/participates on each of the rubrics

Hirthodology	Value	Percint
Explaining	02:00	55%
Demonstrating	06:21	10%
Questioning	00:49	22%
Recitation	00-30	14%
Collaboration	00:00	2%
Engagement	Value	Percen
Several students deengaged	5 2	100%

Figure 1 - The Standard Form

4 29% Question	5 4 30
2 2 14% Extended question	0 \$ 04
0 2 0% Correction	10 2 63
8 2 57% Praise	0 \$ 04
0 🔹 0% Scolding	I + 69

Figure 2 - The Comparison Form

8	00:05	
00:04	B A Girts 3 A Boys	
00:15	00:11	00:10
00:08	00:07	00:19
00:00	00:00	00:00
Total Time : 01:19	Average Time : 00:07	Reset Values Help

Figure 3 - The Teacher Placement Form

Start New	Question Revel Timer			00:00
	Responder	# Answered	Total Time	Avg Time
Answered	Teacher prompts	2	00:12	00:06
Answered	Student answers	1	00:03	00:03
Answered.	Teacher answers	2	00:18	00:09

Figure 4 - The Response Timer Form

Stadoni		Pair	Group	Class
Teacher's focus and instructi on one with a single student	ion is one	Teacher's focus and instruction is with two students who work (or annoy) each other.	Teacher's focus and instruction is with a group of 3 or more students.	Teacher's focus and instruction is all the entire class
()00:23	12%	()00:27 14%	00.00 0%	002:21 749

Figure 5 - The Rubric Form

The first step in creating any element is to navigate to the area where elements are created. This is done by selecting 'Build', and then 'Templates' (Fig. 6). The appropriate element lis then created by selecting 'Elements tab', selecting the element from the list of element types, and then selecting 'New'. (Fig. 7)

-	Assign temp Observation	lates to a View for specific tasks such as s, Self-Assessments, etc.	
Templates	Views	Reference Set Comment Builder	
2	Build	Manage	Penorts

Figure 6 - The Build Menu

remplate	-	Elements	Checklists	value Lists	Reference Sets
New	Timer / C	ounter: Comparison	👻 - Sea	rch element by name	÷
Delete	- All Elen Checkbo Manual T Manual N Drop Doo Date Inp Time Inp Label (Ne Drop Doo Timer / O Timer / O	nent Types - x fext Input fumber Input wn List ut o input) wn List with rubrics Counter: Standard Fi Counter: Teacher Pla	orm	n to gender	Elem
	Timer / C Timer / C Timer / C Drop Don Rubric	Counter: Comparison Counter: Rubric Form Counter: Response T wn List with checklis	n imer t		

# Figure 7 - Selecting an Element type

### Building a form to time/count several items simultaneously

The Standard Form allows you to define up to 14 rows of items that you wish to function as a heading, a timer or a counter .

You must have at least one item, there is one by default which is a Label entitled 'Element List' (See Fig. 8). You will need to edit this to remain as a Label ( and you would change the description), or you can change the type of item and make it a Timer or a Counter with an appropriate description. The remaining 13 items have the default on **<N/A>**, which means they will not be used. You thus use as many rows as you wish, and choose their type and description (See Fig. 9). You can see what your form will look like by selecting the 'Preview' button.

Some devices such as the Palm and Windows Mobile will only display 7 rows and will not scroll to show any additional rows, so be sure you consider the number of rows utilized in the Standard Form if you will be using one of these devices.

You may want to use Labels to act as headers on your form, and you can mix timers and counters on the form. If you have more than one timer, and one of the timers is started, the time accumulates. If you select another timer, the first stops ( with the accumulated time saved), and the second timer begins. If you select a timer that already had accumulated time, the time count will resume from where it left off and continue to accumulate.

If you employ a Counter, the number increases each time you tap the ' $^{\prime}$  icon, and decreases each time you tap the 'V' icon (See Fig. 10).



		It	em Behaviour		
Ente	/ Count	m name - New item name	Timer	A	bb
	Order	Item Name	Behavior		
:	1	Knowledge	Counter	1	×
	2	Comprehension	Counter	1	×
	3	Application	Counter	1	×
	4	Analysis	Counter	1	×
	5	Evaluation	Counter	1	х
	5	Evaluation	Counter		×

# Figure 8 - Building a Standard Form

### Figure 9 - A completed Standard Form (The name has not yet been entered)

Dam List	Value	Percent
Knowledge	6 5	43%
Comprehension	2	14%
Application	3	21%
Analysis	2	14%
Evaluation	1	7%
	flamati	Volues Help

# Figure 10- A completed Standard Form in use on the web.

Building a form to compare 2 groups/conditions/activities

The Comparison Form has two columns of timers and/or counters for making comparisons. When you select it, you are able to define the heading for each column, and create the items you wish to compare (Fig. 11).

	element					0.0	K.
	ent Deec	ription (Timer / Cou	nter I Comparison	1			٩.
iew.	eenert	< <>) TI	mer Name				
		~					
	te Help						
Ele	ment help	· /					٦
			Optional	Help desc			
							*
	Header	Laft ei	de label	Right Header	Right sid	le label	4
abe			imum: 1. Maximu	m: 6)			1
	for Advanta	m. name -	Item nmae		Timer	* Add	
Ent			Dam 7	lame	Timer		
En	Order	-		201010			п.
200	Order 1	Timer 1			Counter	/ ×	
£11	Order 1	Timer 1		Item behavior	Counter	_ / ×	1
£11	Order 1	Timer 1		Item behavior	Counter	_ / ×	
£	Order 1	Timer 1		Item behavior	Counter	X	

The items can be counted or timed, with the timers in each column working independently of each other. When you create a new element, one item (**Timer 1**) is automatically placed in the list and you should edit it to be your first item.

### Figure 11 - Building the Comparison Timer/Counter element

Save	Save & Close	Preview	Cancel
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When you have finished building your element you can preview it, and save it using the buttons at the bottom of the edit window (Fig 12).

### Figure 12- Preview and Saving buttons

Question	00:20	21%
Extended Question	00:07	7%
Correction	00.45	48%
Pratue	00:18	19%
Reprimand	00.04	-
	Question Extended Question Correction Presse Reprimend	Question         0 00:20           Extended Question         0 00:07           Correction         0 00:45           Praise         0 00:18           Reprimed         0 00:04

A completed Comparison Timer is illustrated in Figure 13.

Figure 13- A timer comparing interactions with males and females

Recording teacher movement or connecting with students

The Teacher Placement Form is designed to let you track teacher movement in the classroom, or which areas of the classroom are ignored, be it lack of eye contact, questioning or engagement.

vew (	element		Name the element				
real	e Help						
Eler	ment help						
		6	Optional Help				
	r / Coun	ter List Content (Mir	nimum: 0, Maximum: 2)				
THEFT				Counter	100	1	Add
Ent	er new ite	m name -		Counter	100	P	
Ent	er new ite Order	m name -	Item Name	Behavio	or		
Ent	or new ite Order 1	Counter 1	Item Name	Behavio	or	2	×
Ent	Order 1 2	Counter 1	Item Name	Counter Counter Counter	or	11	××
Ent	Order 1 2	Counter 1 Counter 2	Item Name Default Counters	Counter Counter	or	///	××

In addition to tracking the areas of the classroom (the 9 desks represent the left, right, front, back and middle of the classroom - plus the teacher's desk and the chalk board), you can optionally count 1 or 2 items (which are entered for you by default and require either editing the name or deleting entirely - see Fig. 14)). Typically users count if the teacher is engaging a boy or a girl, but it could be any two things that you may wish to count the frequency of. The teacher's desk is often used to time the teacher's administrative activities, the chalk board to time the lesson delivery, and the student desks to track which areas of the room the teacher engages students. As with other counter/timers, you can preview what you have created before saving.

### Figure 14- The Teacher Placement editing window.

## Timing questions and answers

The Response Timer Form is designed to record what happens first when the teacher asks a question, and to indicate the average time that these things occur (Fig. 15). Typically it is used to show how long a teacher waits before giving students clues or the answers to questions that are posed. If a teacher does not allow a reasonable time for students to digest a question before giving them clues or answers, this instrument will illustrate it. However you can have up to 7 items in your list.

	e Mele		
Eler	vent helo		
2.4011	nens melp		
		er i let Content (Minimum 1 Maniaum 2)	
-		er List Content (Minimum; 1, Maximum; 7)	
Foto	/ Count	m párna -	
Ente	count c new ite	m name -	Save edit Add
Ente	Order	Thachar Promote	Save edit Add
Ente	Order 1	Teacher Prompts	Save edit Add

When you create this element, 2 items are automatically entered for you and you need to edit their names and then save the edit (Fig. 15). As with all counter/timers, you can preview what you have created before saving.

Figure 15- Editing a Response Timer