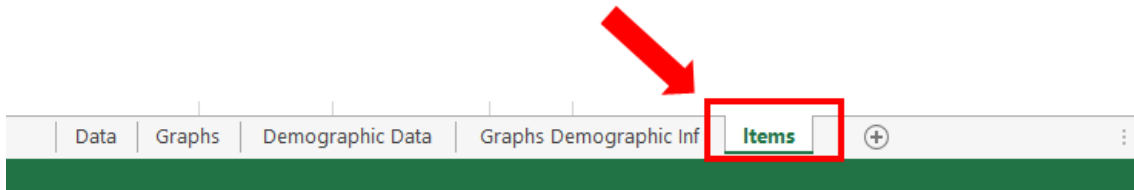


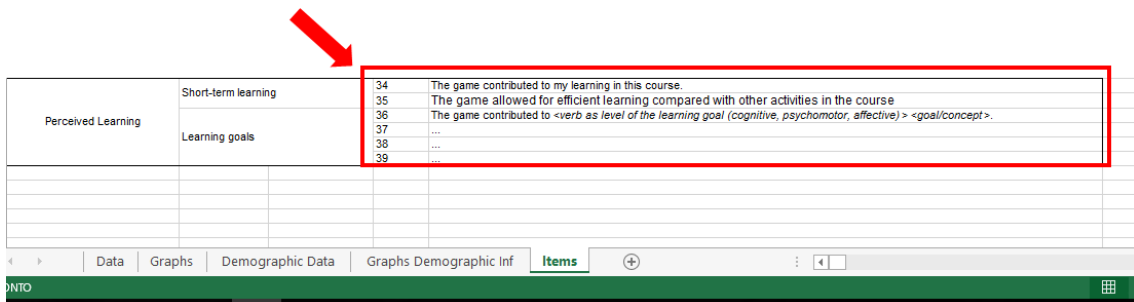
Instructions for use of MEEGA+ Data Analysis Spreadsheet

Step 1. Insert the description of the items according to the learning goals of the evaluated game.

Select the "Items" spreadsheet.



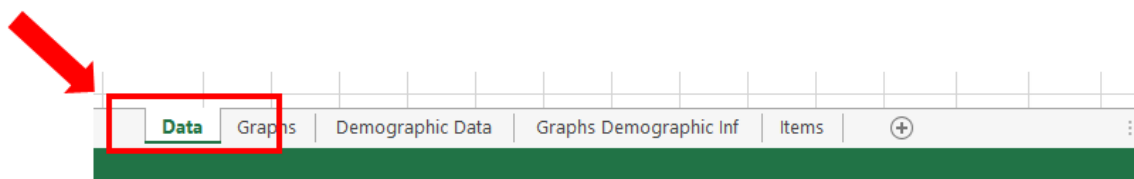
Insert from the line (33 for non-digital games and 36 for digital games) the description of the items according to the learning goals.



Step 2.

Insert the responses to the questionnaire of the items regarding Player Experience and Perceived Learning.

Select the "Data analysis" spreadsheet.



Typing should follow the following scale:

Insert -2, when the response is "strongly disagree".

Insert -1 when the response is "disagree".

Insert 0, when the response is "neither disagree nor agree."

Insert 1, when the response is "agree".

Insert 2, when the response is "strongly agree".

If added new columns, you must extend the formulas (average, median, frequency of responses and percentage) for the new columns.

20	0,90	1,15	1,75	0,90	1,05	0,90	1,20	1,15	1,35	0,70	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
1	1	2	2	1	1	0	1	2	2	0	#NUM!	#NUM!	#NUM!	#NUM!

6	2	11	17	6	8	2	10	11	11	7	0	0	0	0
7	8	6	2	7	7	6	7	6	7	3	0	0	0	0
2	6	0	0	4	3	10	1	0	1	8	0	0	0	0
1	0	1	1	3	2	0	1	1	0	1	0	0	0	0
4	1	2	0	0	0	2	1	2	1	1	0	0	0	0

%	25%	25%	25%	30%	40%	10%	50%	25%	25%	33%	0%	0%	0%	0%
%	40%	30%	10%	35%	25%	30%	35%	30%	25%	15%	0%	0%	0%	0%
%	30%	0%	0%	20%	15%	30%	3%	0%	5%	40%	0%	0%	0%	0%
%	0%	5%	3%	15%	10%	0%	3%	5%	0%	5%	0%	0%	0%	0%
%	5%	10%	0%	0%	0%	10%	5%	10%	5%	5%	0%	0%	0%	0%
%	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%	0,0%	0,0%	0,0%	0,0%

If added new columns, in addition to already prepared (up to 36 non-digital games or 39 games to digital), should extend the formulas (average, median, frequency of responses and percentage) for the new columns.

The total number of typed questionnaires should be typed in the NUM cell. This information is mandatory, as it serves as the basis for the formulas.

16	2	0	1	1	2	2	2	2	2	2	2	2
17	2	1	1	2	1	1	1	1	0	1	1	1
18	-1	1	1	1	2	2	2	2	1	2	2	2
19	-1	1	1	1	0	1	1	0	0	1	1	1
20	1	1	0	1	0	-1	0	-1	-1	0	0	0

Average	1,35	0,90	0,95	1,45	0,80	1,10	1,35	0,25	0,20	1,35	1,35	1,1
Median	2	1	1	1	1	1	2	0	0	2	2	1

NUM	20
-----	----

Indicate into the cell about (NUM) the total number of completed questionnaires

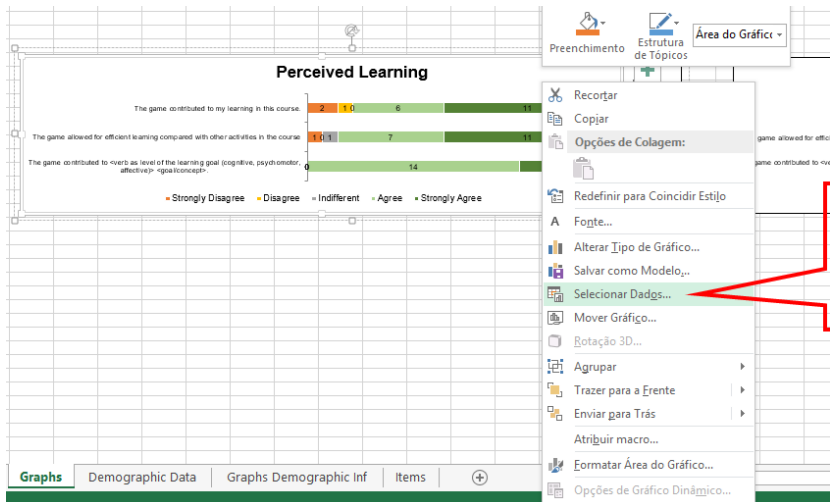
Frequency of responses	2	13	4	4	10	7	6	11	3	4	11	11
1	3	11	11	9	7	11	5	7	4	5	5	5

When you finish filling out the spreadsheet should be indicated in the cell indicated the total number of responses, in this example were 20.

In the spreadsheet "Graphics" the graphics are automatically updated based on the data entered.

However, if you have inserted items related to learning goals in addition to the already prepared columns (36 for non-digital games or 39 games to digital). You have to edit the data set of Perceived Learning chart and select new items.

See the step by step.



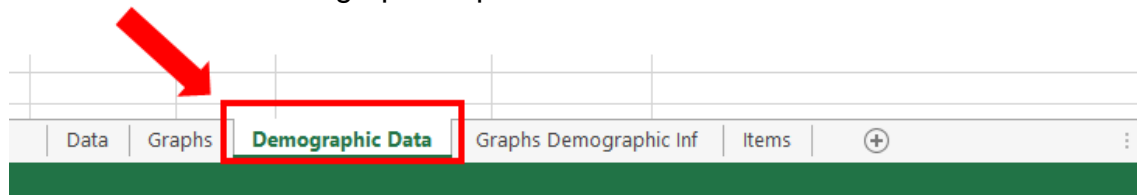
If the items are already in the prepared cells (36 or 39) just select the check box for the item appears on the chart.

6			25	I had fun with	
7		Fun	26	Something h	
8			27	There was s	
9		Focused Attention	28	I was so inv	
0			29	I forgot abou	
1			30	The game co	
2			31	It is clear to	
3		Relevance	32	This game is	
4			33	I prefer learning with this game to learning through other ways (e.g. other teaching methods).	
5			34	The game contributed to my learning in this course.	
6		Short-term learning	35	The game allowed for efficient learning compared with other activities in the course	
7			36	The game contributed to <verb as level of the learning goal (cognitive, psychomotor, affective) > <goal/concept>.	
8		Learning goals	37	...	
9			38	...	
0			39	...	

If you have exceeded the prepared cells (36 or 39). Select the new data set. E Click OK.

Step 3. Insert the responses to the questionnaire regarding the Demographic Information.

Select the "Infos Demographic" spreadsheet.



Again, each line corresponds to a questionnaire answered by a student. Must be respected typing as standard set for each item.

DEMOGRAPHIC INFORMATION						
	Age group: 1 - Under 18 years 2 - 18 to 28 years 3 - 29 to 39 years 4 - 40 to 50 years 5 - Over 50 years	Gender: M - Male F - Female	How often do you play digital games?		How often do you play non-digital games (card or board games, etc.)?	
			1 - Never 2 - Rarely: from time to time 3 - Monthly: at least once a month 4 - Weekly: at least once a week 5 - Daily: every day.	1 - Never 2 - Rarely: from time to time 3 - Monthly: at least once a month 4 - Weekly: at least once a week 5 - Daily: every day.		
1	2	M	1	3		
2	2	M	1	3		
3	1	M	1	3		
4	1	M	3	3		
5	2	F	3	3		
6	2	F	3	3		
7	1	F	3	2		
8	1	M	2	2		
9	3	M	5	2		
10	4	F	5	4		
11	4	F	4	4		
12	5	F	4	4		
13	5	M	4	4		
14	1	M	2	4		
15	1	F	5	5		
16	3	M	3	5		
17	3	F	4	5		
18	2	M	4	5		
19	2	M	4	5		
20	2	F	4	1		
21						
22						
23						
24						
25						
26						
27						

Each line corresponds to a student. The responses of each questionnaire are typed in a line. See the examples.

After typing, graphics on spreadsheet "Graphics Info demographic" will be updated automatically.

