

# Grade a tron3000 Teacher Instructions

The screenshot shows a web browser window with multiple tabs open, including 'Moving out soon thou...', 'Coding the Curriculum', 'Dropbox', 'My Drive - Google Drive', and 'Electricity Test Results'. The address bar shows the URL 'https://drive.google.com/?tab=mo&authuser=0#my-drive'. The Google Drive interface is visible, showing a list of files and folders. A 'CREATE' menu is open on the left, with the 'Form' option highlighted by a green circle. The file list includes items like 'Electricity Test Results', 'Electricity Test', 'toDO', 'PedicabCash', 'PedicabCash.xlsx', 'Retreat DOC Shared', 'Physics Vocabulary Diagnostic Assessment 2nd Semester', 'Electricity Test (Make Up)', 'Waves and Optics Test', 'Sub Lesson June 7 Powerpoint.pptx', 'Physics Unit 4 Test Make UP', 'Physics Unit 4 Test Shared', 'EnergySWA.ppt', 'Grade\_a\_tron3000.xlsxm', 'Momentum/Gravitation Test', 'Untitled form', 'iMovie Film Competition (Responses)', 'Momentum/Gravitation Test (MAKE UP)', and 'iMovie Film Competition'. The bottom of the screen shows the Windows taskbar with icons for Internet Explorer, Google Chrome, and Microsoft Word, along with the system clock showing 9:32 PM on 9/23/2013.

TITLE	OWNER	LAST OPENED BY...
Electricity Test Results	me	9:28 pm
Electricity Test	me	9:18 pm
toDO	me	Sep 22
PedicabCash	me	Sep 15
PedicabCash.xlsx	me	Sep 14
Retreat DOC Shared	me	Sep 14
Physics Vocabulary Diagnostic Assessment 2nd Semester	me	Jun 24
Electricity Test (Make Up)	me	Jun 13
Waves and Optics Test	me	Jun 12
Sub Lesson June 7 Powerpoint.pptx	me	Jun 7
Physics Unit 4 Test Make UP	me	May 3
Physics Unit 4 Test Shared	me	May 2
EnergySWA.ppt	me	May 1
Grade_a_tron3000.xlsxm	me	May 1
Momentum/Gravitation Test	me	Apr 1
Untitled form	me	Apr 1
iMovie Film Competition (Responses)	me	Mar 27
Momentum/Gravitation Test (MAKE UP)	me	Mar 27
iMovie Film Competition	me	Mar 26

In Google Drive create a new Form. This will allow you to post questions. The form has several types of questions. My grader will currently only support multiple choice, short answer, or numerical answers. Once you've put your assessment together in your form, go to the live version of the form and take the assessment with your name as key. **IT IS VERY IMPORTANT THAT YOUR FIRST FOUR QUESTIONS BE IDENTICAL TO MINE.** Then email your students the link to the assessment using the same link used to put in the key.

Once they take the assessment you should be able to see their results in a spreadsheet on Google Drive.

	A	B	C	D	E	F	G	H
1		Type your name below:	Type your email address below:	Type your student code below:	When do you have physics class?	What are the units of resistance?	2. _____ current switches its direction many times each second.	3. LOOK AT PAPER What does this schematic symbol represent?
2	6/12/2013 8:40:15	key	pdunlap@colegiome	0	1st Period	Ohms	Alternating	light bulb
3	6/12/2013 9:28:39	Javier F		1668	1st Period	Ohms	Alternating	A light bulb
4	6/12/2013 9:31:01	Amalia f		1667	1st Period	Ohms	Alternating	Lightbulb
5								

Now select the cell just below the fx in the top left. After all of the spreadsheet is selected, hit Ctrl+C to copy all of the contents.

Now open the Grade\_a\_tron3000.xlsm file. The file has an m at the end because it has macros (small computer programs) that run while you are using the worksheet. You must enable macros to use the worksheet.

Without clicking or selecting anything in the file, hit Ctrl+V to paste your students' data into the spreadsheet.

The screenshot shows the Microsoft Excel interface with a data table. A blue button labeled "SORT" is highlighted with a green circle in cell A5. The table has the following structure:

3	TIME	ID	DEMOGRAPHIC1	DEMOGRAPHIC2	DEMOGRAPHIC3	EX) Class	Q1
5		Type your name below:	Type your email address below:	Type your student code below:		When do you have physics class?	1. V
6	6/12/2013 8:40	key	pduanlap@colegiomenor.edu.ec		0	1st Period	Ohms
7	6/12/2013 9:28	Javier F		1668		1st Period	Ohms
8	6/12/2013 9:31	Amalia f		1667		1st Period	Ohms
9	6/12/2013 9:31	Rodrigo Anda		5075		1st Period	Ohms
10	6/12/2013 9:31	Francisco O		3918		1st Period	Ohms
11	6/12/2013 9:33	Martina J		1679		1st Period	Ohms
12	6/12/2013 9:36	Federico Freile		1690		1st Period	Ohms

Now select SORT.

You are now ready to grade all of the assessments at once. Note: cells with tiny red triangles have hover-tags to give you a bit more information about the information in the cell.

The screenshot shows a Microsoft Excel spreadsheet titled "Grade\_a\_tron3000". The ribbon includes Home, Insert, Page Layout, Formulas, Data, Review, and View. A green oval highlights the header "ASSIGN POINT VALUES" in cell B2. A callout box points to a dropdown menu in cell D4, labeled "Drop down menu for filtering classes". The spreadsheet contains columns for Name, # Correct, Out Of, Extra Credit, When do you have physics class?, and five question columns. The data rows show student names and their scores for each question.

	A	B	C	D	L	P	Q	R	S	T	U	V	W
		ASSIGN POINT VALUES											
2	Name	# Correct	Out Of	Extra Credit	When do you have physics class?	1. What a resist	2. _____ current switches its direction many times each second.	3. LOOK AT PAPER What does this schematic symbol represent?	4. An ammeter must always be placed in...	5. Wha ends o connec			
3		0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
4	Class Average	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
5	Amalia f	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
6	Federico Freil	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
7	FelipeA	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
8	Francisco O	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
9	Javier F	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
10	Martina J	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
11	Nicolas A	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
12	Rodrigo Anda	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
13	Sebastian F	0	0	#DIV/0!	1st Period	Ohms	Points	Points	Points	Points			
14		0											
15		0											
16		0											
17		0											
18		0											
19		0											
20		0											
21		0											
22		0											
23		0											

Select ASSIGN POINT VALUES.

The screenshot shows a Microsoft Excel spreadsheet titled "Grade\_a\_tron3000". The spreadsheet is used for grading a physics test. A "Grade Assist" dialog box is open, allowing the user to select a question type and a point value. The spreadsheet columns include Name, # Correct, Out Of, Extra Credit, and various question answers. A blue box labeled "ASSIGN POINT VALUES" is at the top. The formula bar shows "=AVERAGE(R5:R365)/R2".

1	Name	# Correct	Out Of	Extra Credit	When do you have physics class?	1. What are the units of resistance?	2. _____ current switches its direction many times each second.	3. LOOK AT PAPER What does this schematic symbol represent?	4. An ammeter must always be placed in...	5. What ends or connects...
2	key	3	3		CLEAR	Ohms	1 Alternating	2 light bulb	Series	short
4	Class Average	2.11	3	70%	Class Select	100%	56%	#DIV/0!	#DIV/0!	#DIV/0!
5	Amalia f	3	3	100%	1st Period	Ohms	1 Alternating	2 Lightbulb	Series	It will
6	Federico Freil	3	3	100%	1st Period	Ohms	1 Alternating	2 Lamp	Series	Short
7	FelipeA	1	3	33%	1st Period	Ohms	1 Electric	0 Light bulb	Series	Short
8	Franci						1 Alternating	0 Light bulb	Series	It wo
9	Javier						1 Alternating	2 A light bulb	Series	It hea
10	Martin						1 Alternating	2 Light Bulb	Series	Short
11	Nicola						1 electric	0 lightbulb	Series	overl
12	Rodrig						1 Alternating	2 Light bulb	Series	Short
13	Sebast						1 Electric	0 A light bulb	Series	Short

For each question, select a QUESTION TYPE and a POINT VALUE, then select SUBMIT. After you finish this for each question the class average for that question will display the average and color the background from green to red, green meaning a majority of students correctly answered the question, red meaning few students correctly answered the question. If you do not want to grade a question, just assign it the point value of 0.

Once you've gotten through all of the questions (I think there is currently a limit of 50 or so), it is time to look back through your spreadsheet for any answers that might have been marked wrong but should be marked correctly. Most often spelling errors are the cause of this problem. If there are problems, change the student's score for that question manually.

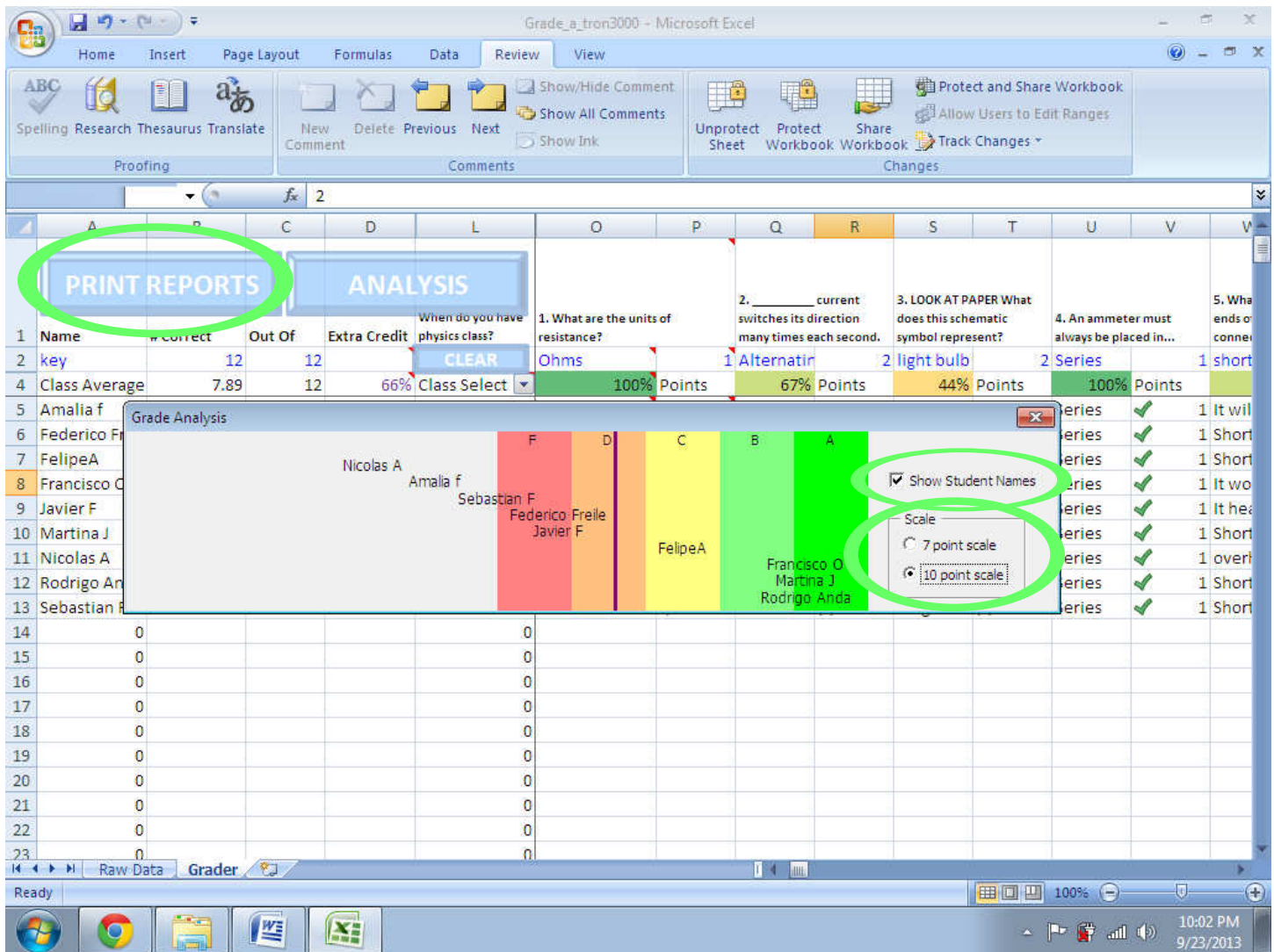
The screenshot shows a Microsoft Excel spreadsheet titled 'Grade\_a\_tron3000'. The interface includes a ribbon with 'Home', 'Insert', 'Page Layout', 'Formulas', 'Data', 'Review', and 'View' tabs. The 'Review' tab is active, showing options like 'Show/Hide Comment', 'Show All Comments', and 'Show Ink'. The spreadsheet has columns labeled A through V and rows numbered 1 through 23. Two buttons, 'PRINT REPORTS' and 'ANALYSIS', are located at the top of the grid. The 'ANALYSIS' button is circled in green. Below the buttons, there are columns for 'Name', '# Correct', 'Out Of', 'Extra Credit', and 'Class Select'. A vertical purple line is positioned in column L. The main data area contains columns for question numbers and answers, with green checkmarks and red X's indicating correct and incorrect responses. At the bottom, there are tabs for 'Raw Data' and 'Grader', and a taskbar with system icons and the date 9/23/2013.

1	Name	# Correct	Out Of	Extra Credit	Class Select	1. What are the units of resistance?	2. _____ current switches its direction many times each second.	3. LOOK AT PAPER What does this schematic symbol represent?	4. An ammeter must always be placed in...	5. What ends o...
2	key	12	12		CLEAR	Ohms	1 Alternatin	2 light bulb	2 Series	1 short
4	Class Average	7.67	12	64%		100% Points	56% Points	44% Points	100% Points	
5	Amalia f	5	12	42%	1st Period	Ohms	1 Alternatin	2 Lightbulb	0 Series	1 It wil
6	Federico Freil	7	12	58%	1st Period	Ohms	1 Alternatin	2 Lamp	0 Series	1 Short
7	FelipeA	9	12	75%	1st Period	Ohms	1 Electric	0 light bulb	2 Series	1 Short
8	Francisco O	9	12	75%	1st Period	Ohms	1 Alternate	2 Light bulb	2 Series	1 It wo
9	Javier F	7	12	58%	1st Period	Ohms	1 Alternatin	2 Light bulb	0 Series	1 It hea
10	Martina J	11	12	92%	1st Period	Ohms	1 Alternatin	2 Light Bulb	2 Series	1 Short
11	Nicolas A	4	12	33%	1st Period	Ohms	1 electric	0 lightbulb	0 Series	1 over
12	Rodrigo Anda	11	12	92%	1st Period	Ohms	1 Alternatin	2 Light bulb	2 Series	1 Short
13	Sebastian F	6	12	50%	1st Period	Ohms	1 Electric	0 A light bul	0 Series	1 Short
14		0								
15		0								
16		0								
17		0								
18		0								
19		0								
20		0								
21		0								
22		0								
23		0								

Now you are ready to look at the student grades graphically. Hit the ANALYSIS button.

The default mode will keep names anonymous and could be shown to students. The vertical purple line represents the class average and you can see letter grades on a 7 or 10 point scale. If you are looking at grades privately, you may want to see the student names.

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Once you've closed the GRADE ANALYSIS tab, select PRINT REPORTS. This will generate a MS Word file (with or without key) showing each student their responses and a check or x next to each response. It can then be printed and given to students or emailed if you like trees.

If you are concerned about your students' collective honesty, do the following:

1. Make a copy of the assessment on Google Drive for each class.
2. Send each class a different link.
3. When a class finishes the assessment, copy their answer data into a different spreadsheet.
4. Delete the finished class' original Form.
5. Search the trash and select DELETE FOREVER.
6. Now the link sent to students in that class will no longer work.
7. Also, it never hurts to add some form of honor pledge statement as a required checkbox at the end of the assessment.

Happy trails!

-Pete Dunlap

PS If you have any problems using it email me at [petedunlap@gmail.com](mailto:petedunlap@gmail.com)