

Answer on Question #81772 - Physics – Other

Give 5 ways to excel in physics

3 sentences in each ways

**Answer**

You can use Excel in Physics everywhere. Excel allows to easily do calculations. You can input formula and use variables.

1. To use formulas and variables

- a) Coulomb's law: you input Q1, Q2, r, F will be calculated in a cell below
- b) Newton's second law
- c) Acceleration through distance

fx =9*10^9*D3*E3/F3^2			
C	D	E	F
F	Q1	Q2	r
2	0,003	-0,0000008	2

fx =D6*E6		
C	D	E
F	m	a
=D6*E6	5	7

fx =(E9^2-D9^2)/(2*F9)			
C	D	E	F
a	v1	v2	d
^2)/(2*F9)	5	1,2	0,5

- 2. Plot graphs. You can input any set of data in Excel and plot it. There are many ways to show your data: linear graphs, bar diagrams, circle diagrams and so on. Also, you can name axes and change a color of the curves.
- 3. Work with big sets of data. Excel has about 1048576 rows and mane columns. You can analyse your data: find mean square deviation, for example.
- 4. Excel has built-in formulas. For example, there is sum of squares formula, and calculations in mechanics become easy. All you need to do is input =SUMSQ(input array here)
- 5. You can use excel to prepare for your exams. It has many cells and you can change their colors, unite cells, and paste pictures inside cells. You can arrange what you need to learn as you want, so Excel can become a huge handy blackboard.

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