



Sampler



Skills and Pathways: Spreadsheets with Microsoft[®] Excel

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For Review Purposes Only

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Key Features

- > An innovative approach to building digital competencies, developed by expert educators.
- > Curriculum aligns with the latest industry standards, preparing students for certifications and future careers.
- > Well-defined learning goals and hands-on, applicable digital skills.



Each unit organizes key terms that are crucial for digital literacy, equipping students for today's technology-driven workplace.



For Review Purposes Only



Working with numbers

Managing numbers and data is a skill that can help in many aspects of life, from tracking expenses to organizing information for school projects. This unit focuses on how to use spreadsheets to organize data, make calculations, and present information clearly using charts and graphs.

Learning Objectives

In this unit, you will:

- > use spreadsheets to organize and analyze data.
- identify the basic components of Excel, including cells, rows, columns, and worksheets, and how to enter and manipulate data.
- > recognize the importance of formatting for clear data presentation and use advanced tools like currency and date formats.
- > enhance data presentation with techniques like merging cells, aligning text, and applying borders and colors.
- > use Excel formulas for basic calculations like addition, subtraction, multiplication, and division.
- automate calculations using functions and apply formulas across multiple cells with AutoFill.
- > use the IF function and logical functions like AND and OR for conditional calculations and data classification.
- create different types of charts in Excel and choose the right one for your data.
- > customize charts by adjusting titles, axes, and colors.



> Microsoft Excel

Rows and columns

In the past, people used to make calculations by hand on paper and mistakes were common. Then, calculators came along and minimized the mistakes. However, it was very difficult and time-consuming to deal with large amounts of information, especially for businesses. Today, thanks to **spreadsheets**, all these are problems of the past.

But what is a spreadsheet? It's like a large sheet of paper with lots of small boxes. People and businesses use spreadsheets mainly for organizing information and the computer does the rest, fast and accurately. Spreadsheets also help analyze information and produce charts. This is very useful.

Microsoft Excel is a spreadsheet program that imitates a paper spreadsheet. In Microsoft Excel, the primary document that is used to store and work with data is called a **worksheet**. Worksheets can be stored in a file, called a workbook.

All programs in the Microsoft Office suite share the same user interface: tabs, buttons, and controls are in the same place.	The Formula bar allows you to type formulas. You can do that in the cells, too, but here you have more space to edit your formulas.				
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History

The first spreadsheet program for computers was VisiCalc. It was created by Dan Bricklin and Bob Frankston in 1979 and it was the first program that turned the microcomputer from a hobby into a serious business tool.

Rows and columns

A worksheet is a grid consisting of cells arranged in rows and columns, where data is entered. A new worksheet can be opened to explore its features.



Depending on the Regional settings, to quickly locate and select specific cells, the cell references are written with a semicolon between them in the Name Box, e.g., A1;B2;C3.

Insert text and numbers

Entering numbers and text into a worksheet involves clicking on a cell, typing, and then moving to another one. Microsoft Excel treats cells with numbers differently from cells with text. If both text and numbers are typed into a cell, Excel treats the cell as if it contains only text.

To add text:

- > Open a new worksheet.
- > Click cell A1 and type the word "Sports". 1
- > Press
 to go to B1 and type the word "Saturday". 2
- > Click cell A2 and type the word "Jogging" and then click A3 and type
 "Cycling". 4
- Now in cell B2 type "30", in
 B3 type "35", in C2 type
 "30", and in C3 type "40". 5



Change column width

If text cannot fit into a cell, only part of the text will be visible on the screen. However, the rest of the text is not lost. To view the entire text, the column width can be adjusted (resized).

To change the column width:

- > Point to the right side of the column you want to resize. 1
- Your cursor will change into a double arrow pointer with a vertical line.
- > Click, hold and move the mouse to the left or to the right to change the width of the column. 3





	А	В	С	D	E	F	G
1	Sports	nturday	Sunday				
2	Jogging	30	30				
3	Cycling	35	40				
4							
5							
6							
7							

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To adjust a column's width to fit its cells' contents:

- > Click a cell that you want to make wider so it fits your word/phrase. 1
- > On the Home tab, in the
 Cells group, click
 Format. 2
- > Click AutoFit Column Width. 3
- > The column will automatically adjust to the width of the text in the cell.

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2	Jogging	30 30				
3	Cycling	35 40		Visibility		
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5				Organize Sheets		
6				Rename Sheet		
7				Move or Copy Sheet		
8				Tab Color		

	A (4	В	С	D	E	F	
1	Sports	Saturday	Sunday				
2	Jogging	30	30				
3	Cycling	35	40				
4							

Change row height

To change the height of a row, the same technique used for adjusting column width can be applied. It is also possible to change the height of multiple rows simultaneously.

To change the size of multiple rows:

- > Select the rows whose height you want to change, drag by clicking the row numbers, e.g., from row 2 to 3. 1
- Point between two of the row headers that you selected.
 Your cursor will change into a double arrow pointer with a horizontal line.
- Click, hold and move the mouse up or down to change the height of all the selected rows simultaneously.

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		А	В	С		E	F	G
	1	Sports	Saturday	Sunday				
	<mark>↑</mark> 2	Jogging	30	30	D			
٤/	- 3	Cycling	35	4(D			
	4							
	5							
	6							

		А	В	С	D	E	F
	1	Sports	Saturday	Sunday			
	2	Jogging	30	30			
	3	Cycling	35	40			
2	4						
	5						
	6						

Insert columns and rows

Additional columns or rows can be added as needed. Similar to working with a table in Microsoft Word, rows and columns can be inserted anytime and anywhere within the worksheet. For example, to add the day "Friday" between "Sports" and "Saturday", simply insert a new column in the desired location.

To insert a new column:

- Right-click the header of a column, e.g., column B. 1
- > From the drop-down menu click Insert. 2
- > A new column will be inserted next to column A. 3
- > Type the word "Friday" in cell
 B1, the number "15" in cell
 B2, and "20" in cell B3. (4)



		3									
	A	В	С	D	Е		А	В	С	D	E
1	Sports		🝼 turday	Sunday		1	Sports	Friday	Saturday	Sunday	
2	Jogging		30	30		2	Jogging	15	4	30	
3	Cycling		35	40		3	Cycling	20	35	40	

To insert a new row, you will follow similar steps:

- > Right-click the header of a row, e.g., row 1. 1
- > From the drop-down menu click Insert. 2
- > A new row will be inserted. 3
- > Let's add a title. Click cell A1 and type "My fitness schedule". 4

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8	- -	Format Cells		1	- Sn	orte	Friday	Saturday	Sunday	
9		Row Height		2	зp		riuay	Saturday	Sunday	
10		<u>H</u> ide		3	Jo	gging	15	30	:	30
				4	Су	cling	20	35	2	40

If you want to automatically insert more than one row or column, simply select the number of rows or columns you want to add. E.g., if you want to insert two columns next to column C, select columns D and E, right-click and select Insert. Two new columns will be added next to column C.

	А	В		С	D	
1	My fitness sch	nedule	4			
2	Sports	Friday		Saturday	Sunday	
3	Jogging		15	30	30	
4	Cycling		20	35	40	

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Wrap text

For long text that doesn't require a wider column, a multiline cell can be used. The text will wrap to the next line and continue wrapping until all of it is displayed correctly. Additionally, wrapped text automatically adjusts the row height to accommodate the content.

To wrap text:

- > Click cell A1. 1
- > On the Home tab, in the Alignment group, click the Wrap Text button. 2
- > Your text will automatically wrap to fit correctly in the cell. 3

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Formulas

Merge cells

A good title will describe your data in a better way. To create a title above your columns, you can combine or "merge" two or more cells and make a longer cell.

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4 Cycling

To merge cells:

- > Select the cells from A1 to **D1**. 1
- > On the **Home** tab, in the Alignment group, click Merge & Center. 2
- > Microsoft Excel will automatically merge these cells and put the text in the center. 3

Add Worksheet

You may have noticed that at the bottom of the window there is a tab labeled Sheet1. Sometimes you need to have more than one table in the same book. That's why you have this option. You can add or delete a worksheet or even rename it according to its content or purpose.



1. Working with numbers For Review Purposes

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Data

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To insert a new worksheet into the same file, click the (+) New sheet icon.

20

35

40

12

To rename a worksheet:

- > Double-click or right-click Sheet1 and click Rename. 1

2	Sports	Friday	Saturday S	
3	Jogging	Insert	30	Delete a
4	Cycling 1	Delete • Rename	35	worksheet.
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8		Tab Color	•	8
9		Hide		9
10		Unhide		10
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Simple formatting

Occasionally, tables need to be adjusted for better readability or to highlight specific data, particularly with numbers. This is where formatting comes in. To apply different formats, the same method used in Microsoft Word can be applied. The buttons are similar, and it's important to first select the data before applying the format.



Now that you know how to format a table, finish the job. Try to format the table as you like. Keep in mind that after you apply any format, you may need to change the width and the height of your rows and columns or apply new borders, etc.

Hands on!

Create your weekly schedule with Microsoft Excel. Now you will never forget the tasks that you have to do. Don't forget, a good program saves time!

For Review Purposes Only, Working with numbers 13

Advanced formatting

So far, a small table has been created and formatted for clarity. Next, the focus will shift to understanding the meaning of numbers and further formatting options. Some of the topics to explore include the difference between numbers and currency, and how to enter dates into a cell.

The task will involve creating a grocery list, including the items to purchase, their quantities, and the cost of each product. After entering the data, the list will be formatted using advanced options.

Currency

Let's start with the price. A typical use of Microsoft Excel is to gather data that has to do with money. In such cases, you need to change the numbers into a currency format.

To apply a currency format:

- > Select the cells you want, e.g., C4 to C9. 1
- > On the Home tab, in the Number group, from the Number Format list, 2 click Currency. 3
- > The format of your cells has changed. 4

	А	В	С	
1	9/25/2023			
2	Grocery List			
3	Item	Quantity	Price	Total
4	Milk	2	\$1.00	
5	Bread	2	\$0.50	
6	Orange juice	1	\$1.20	Δ
7	Apples	2	\$2.00	
8	Potatoes	3	\$1.50	
9	Tomatoes	1	\$0.80	
10				
11	*Apples, potat	toes and tomat	toes are in kilos	5.
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1	9/25/2	2023							
2	Grocery	List							
3	Item		Quan	tity	Price		Tota	al	
4	Milk			2		1			
5	Bread			2		0.5			
6	Orange	juice		1		1.2			
7	Apples			2		2			
8	Potatoe	S		3		1.5			
9	Tomato	es		1		0.8			

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	А	В	С	D		Accounting	G
1	9/25/2023					\$1.00	
2	Grocery List					Date	
3	Item	Quantity	Price	Total		01/01/1900	
4	IVIIIK	2	1		- ·	Date 01/01/00	
5		1	0.5				
7	Annles	2	1.2			Time 00:00:00	
8	Potatoes	3	1.5				
9	Tomatoes	1	0.8		%	100.00%	
10					1/	Eraction	
11	*Apples, potat	toes and tomat	oes a kilos	5.	1/2	1	
12					102	Scientific	
13					102	1.00E+00	
14						Text	
15					ab	1	
16					Mo	re Number Formats	
17							

You can choose between Number, Currency, Accounting, and Percentage. Accounting aligns the values at the decimal point.

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Date

Microsoft Excel offers a range of date formats to choose from, allowing for greater flexibility in how dates are displayed.

To apply Date or Time:

- > Select the cell that contains the date you want to format, e.g., A1. 1
- > On the **Home** tab, in the Number group, click the Expand button. 2
- > The Format Cells window will open. Click Date. 3
- > In the **Type** list, **4** click the type you like and then click OK. 5

Merge cells, wrap text, and set alignment

The previous task was about how you can format data. All of these options are included in a single window.

To merge cells, wrap the text, and align it:

- > Select the cells you want to merge, e.g., A2 to D2. 1
- > On the **Home** tab, in the Number group, click the Expand button. 2
- > In the Format Cells window, click the Alignment tab. 3
- > Select the Wrap text 4 and Merge cells check boxes. 5
- > In the **Horizontal** list. click Center and in the Vertical list, click **Center** again. 6
- > Click **OK**. 7





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Borders and shading

Table formatting involves borders and colors. You can use borders and shading to divide your data into groups or to make differences and similarities more noticeable.

To apply a border:

- > Select the table, e.g., A2 to D9. 1
- > On the Home tab, in the
 Number group, click the
 Expand button. 2
- In the Format Cells window, click the Border tab. 3
- > Select a border style, e.g., click **Outline** and then click **Inside**. 4
- In the Style 5 and Color 6 lists, click the line style and the color you like and then click OK. 7

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1	2	25-Sep-2	23							
2				Groce	ery Lis	st				
3	Item	1	Qua	antity	Price	9	Total			
4	Milk			2		\$1.00				
5	Brea	ıd		2		\$0.50				
6	Orar	nge juice	e	1		\$1.20				
7	Арр	les		2		\$2.00				
8	Pota	toes		3		\$1.50				
9	Tom	atoes		1		\$0.80				
10										





' History

VisiCalc was the first spreadsheet program. Later, Lotus 1-2-3 made it easier to use spreadsheets and it added integrated charting and database capabilities. Lotus 1-2-3 established spreadsheet software as a data presentation package as well as a complex calculation tool.

To apply colors:

10

11 *Apples, potatoes and tomatoes are in kilos.

- Select the table or the cell you want to format,
 e.g., the title in cell A2. 1
- > On the Home tab, in the Number group, click the Expand button. 2
- > In the Format Cells window, click the Fill tab. 3
- > Click the color you want 4 and click **OK**. 5



Insert image

Similar to Microsoft Word, images can be inserted to enhance the appeal of a table. An image can be inserted from the Illustrations section, placed anywhere within the table, and formatted as needed. However, avoid using the Format tab for this process.

To insert an image:

- > On the Insert tab, in the Illustrations group, click Pictures 1 then point to Place over cells and click Online Pictures. 2
- > Select one of the images 4
 and click Insert. 5
- The image you chose will be automatically inserted in your worksheet. 6

To format an image:

- Right-click the image and then click Format
 Picture. 1
- You will find the Format Picture pane, where you can find many options to format the image, 2 e.g., you can use Size to change the size of the image. 3
- > Experiment to get the desired results.







Hands on!

Make your own grocery list. What do you usually buy from the supermarket?

Project

Analyzing your country's agriculture

Gather information about the agricultural production of your country.

G agriculture data USA - Google Se 🗙 🕂

> Go on the Internet and gather information about these two subjects: which types of argiculture products your country produces and which are the most popular ones. Use websites with relevant information.



- > It's time for statistics.
 After you decide which products you are going to analyze, start to gather statistics on them.
 For example, find out how much of that product your country produces, in which months, etc.
- → O A https://www.google.com/search?ei=bnYIX5yVG-6jrgTc862AAw&q=agriculture+data+USA... Q ☆ 归 1 (L) Google agriculture data USA X J Q USDA - National Agricultural Statistics Service Homepage www.usda.gov > topics > data * Data | USDA An official website of the United States government ... across the U.S. Department of Agriculture (USDA) including enterprise data and analytics activities. USDA ... ww.nass.usda.gov > AgCensus Census of ... - USDA - National Agricultural Statistics Service May 19, 220 - Get the Data. New for the 2017 Census of Agriculture data release, the Ce Data Query Tool (CDQT) is an easy way to access, view ... www.data.gov > food * Food and Agriculture's - Agriculture - Data.gov ation and policy strategy. If Explore data that can help inform agriculture investment, innov you're interested in agricultural production, food security, rural .
- > Fill in the table with all the useful information that you have gathered.

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2	Oranges																	
3	Apples																	
4	Potatoes																	
5	Tomatoes																	
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For Review Purposes Only Working with numbers

- > After you gather all the necessary information, put it on a worksheet. Open Microsoft Excel and try to organize your data. Arrange it in a way that you think makes your data easier to read.
- > After you're done with your data, focus on the statistics. What are the total and average amounts of the products per month or per year, etc.
- > Don't forget that there are no statistics without charts. Create different types of charts to compare all the data and provide a visual representation of what you have gathered so far.

> Finally, don't forget to format your table.











Take a moment to reflect on your progress.

How confident are you in your ability to apply the following skills?

- > Describing the basic components of a spreadsheet.
- > Understanding how to enter and format data in Excel.
- > Creating and formatting tables for clear data organization.
- > Using different formatting options, number formats, and text alignments.
- > Designing appealing spreadsheets using advanced formatting tools.
- > Using basic arithmetic operators and formulas for calculations.
- > Applying functions and AutoFill for efficient data management.
- > Using the IF function and logical functions for conditional operations and data analysis.
- > Identifying, creating, and customizing various charts for clear data presentation and selecting appropriate charts for different datasets.

Key Terms

autofill	column width	function	row
autofit	criterion	grid	row height
AVERAGE	currency	IF	spreadsheet
axis	decimal	legend	style
calculation	division	MAX	subtraction
cell	false	merge	SUM
chart	formula	MIN	true
column	formula bar	percentage	worksheet

Spreadsheets

with Microsoft[®] Excel

From raw data to useful insights

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By the end, you'll not only feel confident in your spreadsheet skills, but you'll also be prepared to earn a credential that shows you know how to turn data into meaningful insights—ready to take on any challenge with clarity and precision.





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