

# EXCEL FUNCTION SHEET

## EXCEL FUNCTIONS

## Log In!

- Test multiple conditions with `ifall`
- Generate the logical value `True`
- Test for a specific condition
- Drop and insert array
- Drop and insert `np.nan` entries
- Test multiple conditions, return first true
- Return arguments in tuple
- Test multiple conditions with `if`
- Mask: multiple values, return first match
- Generate the logical value `False`
- Reorder conditions `if`

**Date and Time**

**Day**  
A period of 24 hours  
**Week**  
Seven days  
**Month**  
Approximately 30 days  
**Year**  
Twelve months or approximately 365 days  
**Decade**  
Ten years  
**Century**  
One hundred years  
**Millennium**  
One thousand years  
**Era**  
A long period of time characterized by certain events or trends  
**Epoch**  
A specific point in time or a short period of time  
**Period**  
A length of time between two points  
**Interval**  
The space or distance between two points  
**Duration**  
The length of time something lasts  
**Span**  
The extent or range of something  
**Range**  
The difference between the highest and lowest values  
**Scope**  
The extent or range of something's influence or effect  
**Scale**  
A system of measurement or comparison  
**Ratio**  
A comparison of two quantities  
**Proportion**  
The relative size or amount of something  
**Percentage**  
A fraction of one hundred  
**Fraction**  
A part of a whole  
**Decimal**  
A number expressed in base ten  
**Integer**  
A whole number  
**Natural Number**  
Positive integers starting from one  
**Whole Number**  
Non-negative integers including zero  
**Rational Number**  
Numbers that can be expressed as a ratio of two integers  
**Irrational Number**  
Numbers that cannot be expressed as a ratio of two integers  
**Real Number**  
All rational and irrational numbers  
**Complex Number**  
Numbers involving imaginary units  
**Imaginary Number**  
Numbers involving the square root of negative one  
**Algebraic Number**  
Roots of polynomial equations with rational coefficients  
**Transcendental Number**  
Numbers that are not algebraic  
**Prime Number**  
Natural numbers greater than one with no positive divisors other than one and itself  
**Composite Number**  
Natural numbers that have more than two positive divisors  
**Square Number**  
Numbers that are perfect squares of integers  
**Cube Number**  
Numbers that are perfect cubes of integers  
**Factorial**  
Product of all positive integers up to a given number  
**Powder**  
Fine particles of a substance  
**Grain**  
Small particles or seeds  
**Dust**  
Very fine particles  
**Sand**  
Granular material composed of small grains  
**Soil**  
Loose material covering the Earth's surface  
**Rock**  
Solid mineral matter  
**Mineral**  
Inorganic solid substance with a definite crystal structure  
**Crystal**  
Solid material whose atoms are arranged in a repeating pattern  
**Liquid**  
Substance that flows and takes the shape of its container  
**Gas**  
Substance that fills its container and exerts pressure  
**Plasma**  
Ionized gas consisting of free electrons and ions  
**Condensation**  
Process of changing from gas to liquid  
**Evaporation**  
Process of changing from liquid to gas  
**Freezing**  
Process of changing from liquid to solid  
**Melting**  
Process of changing from solid to liquid  
**Boiling**  
Rapid phase transition from liquid to gas  
**Freezing Point**  
Temperature at which a liquid becomes a solid  
**Boiling Point**  
Temperature at which a liquid becomes a gas  
**Melting Point**  
Temperature at which a solid becomes a liquid  
**Freezing Point Depression**  
Lowering of the freezing point of a solution  
**Boiling Point Elevation**  
Raising of the boiling point of a solution  
**Heat Capacity**  
Amount of heat required to raise temperature  
**Specific Heat**  
Heat capacity per unit mass  
**Thermal Conductivity**  
Ability to conduct heat  
**Conductivity**  
Ability to allow flow of electricity or heat  
**Resistivity**  
Opposition to electric current  
**Capacitance**  
Ability to store electrical charge  
**Voltage**  
Electrical potential difference  
**Current**  
Flow of electric charge  
**Power**  
Rate of energy conversion  
**Energy**  
Capacity to do work  
**Work**  
Transfer of energy through force  
**Force**  
Push or pull upon an object  
**Pressure**  
Force per unit area  
**Tension**  
Pulling force transmitted through a string  
**Compression**  
Pushing force that squeezes objects  
**Shear Stress**  
Force parallel to a surface  
**Bulk Modulus**  
Resistance to uniform compression  
**Young's Modulus**  
Stiffness of a material  
**Poisson's Ratio**  
Lateral strain divided by longitudinal strain  
**Strain**  
Deformation of a material  
**Stress**  
Internal forces within a material  
**Modulus of Elasticity**  
Measure of a material's resistance to deformation  
**Hooke's Law**  
Linear relationship between stress and strain  
**Elastic Limit**  
Maximum stress before permanent deformation  
**Yield Strength**  
Onset of plastic deformation  
**Tensile Strength**  
Maximum stress under tension  
**Compressive Strength**  
Maximum stress under compression  
**Shear Strength**  
Maximum shear stress  
**Impact Resistance**  
Ability to withstand sudden blows  
**Hardness**  
Resistance to surface indentation  
**Brittleness**  
Tendency to fracture without significant plastic deformation  
**Ductility**  
Ability to be drawn into wires  
**Malleability**  
Ability to be hammered into thin sheets  
**Fracture Toughness**  
Resistance to crack propagation  
**Kinematics**  
Study of motion without considering causes  
**Dynamics**  
Study of motion and its causes  
**Mechanics**  
Branch of physics dealing with forces and motion  
**Statics**  
Study of bodies at rest or moving with constant velocity  
**Dynamics**  
Study of bodies in motion  
**Kinetics**  
Study of forces causing motion  
**Newton's Laws**  
Fundamental principles of classical mechanics  
**Gravity**  
Attractive force between masses  
**Acceleration**  
Change in velocity over time  
**Velocity**  
Speed in a given direction  
**Displacement**  
Change in position  
**Distance**  
Total path length traveled  
**Time**  
Duration of an event  
**Frequency**  
Number of occurrences per unit time  
**Wavelength**  
Distance between successive peaks of a wave  
**Amplitude**  
Maximum displacement from equilibrium  
**Phase**  
Position in a cycle  
**Period**  
Time taken for one complete cycle  
**Oscillation**  
Repeating variation around a central value  
**Vibration**  
Mechanical oscillation  
**Wave**  
Disturbance traveling through a medium  
**Sound**  
Mechanical waves propagating through air  
**Light**  
Electromagnetic radiation visible to the eye  
**Color**  
Perceptual experience resulting from light  
**Optics**  
Study of light and vision  
**Refraction**  
Bending of light rays  
**Reflection**  
Bouncing back of light rays  
**Diffraction**  
Spreading of waves around obstacles  
**Interference**  
Combination of overlapping waves  
**Coherence**  
Consistent phase relationship  
**Polarization**  
Orientation of wave oscillations  
**Scattering**  
Redirection of particles or waves  
**Absorption**  
Taking in of energy or particles  
**Emission**  
Release of energy or particles  
**Radioactivity**  
Spontaneous emission of ionizing radiation  
**Alpha Particle**  
Helium nucleus  
**Beta Particle**  
High-speed electron or positron  
**Gamma Ray**  
High-energy electromagnetic radiation  
**Neutron**  
Neutral particle found in atomic nuclei  
**Proton**  
Positively charged particle found in atomic nuclei  
**Electron**  
Negatively charged particle found in atomic nuclei  
**Quark**  
Elementary constituents of matter  
**Lepton**  
Elementary particles not subject to strong interaction  
**Photon**  
Quantum of electromagnetic radiation  
**Atom**  
Smallest unit of ordinary matter  
**Molecule**  
Group of atoms bonded together  
**Compound**  
Chemical substance formed from different elements  
**Mixture**  
Combination of substances that are not chemically combined  
**Solution**  
Homogeneous mixture  
**Colloid**  
Mixture where particles are dispersed  
**Suspension**  
Heterogeneous mixture  
**Crystalline Solid**  
Solid with ordered internal structure  
**Amorphous Solid**  
Solid without long-range order  
**Polymers**  
Large molecules made of repeating units  
**Monomers**  
Building blocks of polymers  
**Isomers**  
Compounds with same formula but different structures  
**Enzymes**  
Biological catalysts  
**Genetics**  
Study of heredity  
**DNA**  
Molecular blueprint of life  
**RNA**  
Molecules involved in protein synthesis  
**Protein**  
Complex organic molecules essential for life  
**Cell**  
Basic structural and functional unit of life  
**Organism**  
Individual living entity  
**Population**  
Group of individuals of same species  
**Community**  
Group of interacting populations  
**Ecosystem**  
Community and its physical environment  
**Biome**  
Large-scale ecological community  
**Climate**  
Average weather conditions over time  
**Weather**  
Short-term atmospheric conditions  
**Hydrology**  
Study of water  
**Geology**  
Study of Earth's materials and processes  
**Seismology**  
Study of earthquakes  
**Volcanology**  
Study of volcanoes  
**Metamorphism**  
Changes in rock properties due to heat and pressure  
**Sedimentation**  
Deposition of particles  
**Erosion**  
Removal of soil or rock by wind or water  
**Glaciology**  
Study of glaciers  
**Limnology**  
Study of inland waters  
**Oceanography**  
Study of oceans  
**Marine Biology**  
Study of organisms in the ocean  
**Ecology**  
Study of interactions between organisms and their environment  
**Evolution**  
Change in heritable characteristics of populations over generations  
**Speciation**  
Formation of new species  
**Adaptation**  
Trait that helps organism survive  
**Extinction**  
Disappearance of a species  
**Biodiversity**  
Variety of life forms  
**Conservation**  
Protection of natural resources  
**Sustainability**  
Meeting needs without compromising future generations  
**Renewable Energy**  
Energy from sources that replenish naturally  
**Non-Renewable Energy**  
Energy from finite sources like fossil fuels  
**Global Warming**  
Increase in average global temperatures  
**Climate Change**  
Long-term shifts in climate patterns  
**Greenhouse Effect**  
Trapping of heat by greenhouse gases  
**Carbon Footprint**  
Total greenhouse gas emissions caused by an individual or organization  
**Renewable Resources**  
Resources that can be replenished  
**Non-Renewable Resources**  
Resources that cannot be replaced once used  
**Recycling**  
Process of converting waste into reusable material  
**Waste Management**  
Handling of refuse or rubbish  
**Pollution**  
Contamination of the environment  
**Deforestation**  
Clearing of forests  
**Reforestation**  
Planting trees after deforestation  
**Urbanization**  
Growth of cities  
**Rural-Urban Migration**  
Movement from countryside to city  
**Demographics**  
Statistics relating to human populations  
**Population Growth**  
Increase in the number of people  
**Age Structure**  
Distribution of population by age groups  
**Sex Ratio**  
Ratio of males to females  
**Life Expectancy**  
Average number of years a person is expected to live  
**Mortality Rate**  
Death rate per 1,000 live births  
**Fertility Rate**  
Average number of children born to a woman  
**Immigration**  
Entry into a country from another  
**Emigration**  
Exit from a country to another  
**Migration**  
Movement from one place to another  
**Urban Sprawl**  
Unplanned expansion of cities  
**Smart Cities**  
Cities using technology to improve efficiency  
**Infrastructure**  
Basic facilities for public use  
**Transportation**  
Moving people or goods from one place to another  
**Communication**  
Exchange of information  
**Information Technology**  
Use of computers and electronics to handle information  
**Artificial Intelligence**  
Simulation of human intelligence  
**Machine Learning**  
Teaching machines to learn from data  
**Data Science**  
Extraction of knowledge from data  
**Big Data**  
Large volumes of data generated rapidly  
**Cloud Computing**  
Using remote servers to store and process data  
**Internet of Things**  
Network of interconnected devices  
**Augmented Reality**  
Overlaying digital information onto the real world  
**Virtual Reality**  
Simulated experiences through headsets  
**Gaming**  
Interactive entertainment software  
**Streaming Services**  
Watching media online  
**Digital Marketing**  
Promoting products or services using digital channels  
**E-commerce**  
Buying and selling goods or services online  
**Blockchain**  
Distributed ledger technology  
**Cryptocurrency**  
Digital currency secured by cryptography  
**Artificial Neural Networks**  
Computational models inspired by the human brain  
**Deep Learning**  
Subset of machine learning using multiple layers of neurons  
**Generative Adversarial Networks**  
AI systems capable of generating realistic data  
**Reinforcement Learning**  
Learning through trial and error with rewards and penalties  
**Swarm Intelligence**  
Collective behavior of decentralized agents  
**Autonomous Systems**  
Systems operating independently without human intervention  
**Robotics**  
Design and construction of robots  
**Space Exploration**  
Venturing beyond Earth's atmosphere  
**Aerospace Engineering**  
Design of aircraft and spacecraft  
**Aviation**  
Travel by air  
**Navigation**  
Finding way from one place to another  
**Mapmaking**  
Creating representations of geographical areas  
**Cartography**  
Science and art of map-making  
**Geographic Information Systems**  
Tools for capturing, storing, analyzing, and displaying spatial data  
**Remote Sensing**

## Lookup and Reference

<b>SELECT</b>	Retrieve data from one or more tables
<b>FROM</b>	Get the number of rows in a table
<b>WHERE</b>	Get a value from a table based on position
<b>VALUES</b>	Get the value of a column
<b>INSERT</b>	Get number of columns in a table
<b>UPDATE</b>	Update data from a table
<b>DELETE</b>	Remove data from a table
<b>CREATE</b>	Create a new table
<b>DROP</b>	Delete a table
<b>ALTER</b>	Change the structure of a table

**Text**

<b>Text</b>	Get a value in a list or table-based row location
<b>Text</b>	Create a reference from text
<b>Text</b>	Look up a value in a row column range
<b>Text</b>	Get the position of an item in an array
<b>Text</b>	Create an reference offset from given starting point
<b>Text</b>	Get the row number of a reference
<b>Text</b>	Get the number of columns in a range or reference
<b>Text</b>	Get the coordinates of a range of cells
<b>Text</b>	Convert a value to a binary-bytewise float number
<b>Text</b>	Get a character from a number
<b>Text</b>	Get text, possibly a character from text
<b>Text</b>	Get the code for a character
<b>Text</b>	Get text, return without spaces
<b>Text</b>	Join text together
<b>Text</b>	Convert a number to text in currency format
<b>Text</b>	Compare two text strings
<b>Text</b>	Get location starting in a string
<b>Text</b>	Convert number to text with fixed operators
<b>Text</b>	Convert text from the left of a string
<b>Text</b>	Get the length of text
<b>Text</b>	Convert text to upper case
<b>Text</b>	Convert text from middle of string
<b>Text</b>	Expand text to number with custom operators
<b>Text</b>	Expands the first value in text array
<b>Text</b>	Expands text based row location
<b>Text</b>	Expand text as specified
<b>Text</b>	Extract text from the right of a string
<b>Text</b>	Get the location of something in a string
<b>Text</b>	Replace text based on content
<b>Text</b>	Convert a number to text in a number format
<b>Text</b>	Join text, given with a delimiter
<b>Text</b>	Replace some space from text
<b>Text</b>	Get character character by number
<b>Text</b>	Get number from binary character
<b>Text</b>	Convert text to upper case
<b>Text</b>	Convert text to a number

## Dynamic Array

<b>Capacity</b>	Continually adding or changing to a new thing
<b>Cost</b>	Money involved in an endeavor
<b>Efficiency</b>	Ability to function in an easy
<b>Flexibility</b>	Ability to adapt to changes in an easy way
<b>Profitability</b>	Ability to generate a profit
<b>Scalability</b>	Ability to increase or decrease in size
<b>Speed</b>	How fast something can be done
<b>Support</b>	Help or assistance given to someone
<b>Throughput</b>	Amount of work done in a given time
<b>Volume</b>	Amount of something that is produced or consumed
<b>Weight</b>	Measure of mass or heaviness
<b>Yield</b>	Amount of something that is produced
<b>Quality</b>	Standard of something that is produced

### Discussion

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- [Join sample variance for matching records](#)

[illegible]

- Improve productivity within MS Excel by learning these functions

- Includes short description of each function and grouped to assist with accessibility

- Designed for A5 paper size, so print these out and keep them close by

# Microsoft Excel Help Guide

**Cia Training Ltd Staff**

A red circular graphic with a gradient, appearing as a partial circle or a thick arrow pointing to the right, located on the right side of the slide.

## Microsoft Excel Help Guide:

*Absolute Beginner's Guide to Microsoft Office Excel 2003* Joe Kraynak, 2003 Takes you step by step through the most essential tasks and provides plenty of illustrations that show you exactly what to do abstract **Microsoft Excel User's**

**Guide**, 1994 *VISUAL BASIC USER'S GUIDE MICROSOFT EXCEL VERSION 5.0* MICROSOFT CORPORATION, 1994

Open Learning Guide for Excel 2003 Introductory Cia Training Ltd Staff, 2004-05 This A4 spiral bound manual has been specifically designed to provide the necessary knowledge and techniques for the successful creation and manipulation of an Excel spreadsheet The accompanying data files on disk are designed to help demonstrate the features you are learning as you work through the manual using a step by step approach Excel 2022 beginner's user guide kylie Cox, 2022-08-31 Excel is the application used by many industries to develop business plans create financial reports produce budget reports etc It is a software from the Microsoft Office suite that allows the creation of tables automated calculations schedules graphs and databases This type of software is called a spreadsheet Even if you ve never used Excel before this book will walk you through the basics and if you ve used it before you ll get even more information This is a complete guide for those who are just getting started with Excel and want to understand all the little keyboard tricks and shortcuts In addition the book provides simple hotkeys and step by step instructions Don t waste any more time Dive in right away One more thing you also get free access to a GIFT at the end of this book that can help you work smarter and faster if you get this book SIMPLE GUIDE TO UNDERSTANDING EXCEL 2022 IN FEW DAYS Are you a beginner and want to learn Excel quickly and easily Do you use Excel at home or in the office Do you want to learn how to use Microsoft Excel 2022 so that you can be successful in the workplace If so you are in the right place In this book you will discover Microsoft Excel Basics Excel Applications and Terminologies Excel Formulas and Functions Excel Charts and Charts Excel Shortcuts and Tricks and many more The language for beginners is very simple and the explanations are accompanied by lots of colored images to make the path fluid and understandable Even if you ve never used Excel before this book will walk you through the basics and if you ve used it before you ll get even more information This is a complete guide for those who are just getting started with Excel and want to understand all the little keyboard tricks and shortcuts In addition the book provides simple hotkeys and step by step instructions Don t waste any more time Dive in right away One more thing you also get free access to a GIFT at the end of this book that can help you work smarter and faster if you get this book Translator Johnn Bryan PUBLISHER TEKTIME

The Complete Idiot's Guide to Excel Ricardo Birmele, 1993 This book includes easy instructions and handy references for using Excel *Microsoft Excel User's Guide*, 1993 **user's guide 1; microsoft excel**, 1992 Learn Microsoft Excel Now Ralph Soucie, 1990 Learn Microsoft Excel Now is a complete introduction to this popular spreadsheet program A hands on approach in learning how to use the program for making simple calculations to creating more complex mathematical equations **Absolute Beginner's Guide to WordPerfect 11** Laura Acklen, 2004 Whether you re new to WordPerfect or

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