

MS Word Basics

- Formatting Text: Select text and use the **Home** tab to change font face, size, color, style (bold/italic/underline) and alignment (left, center, right, justify) 1 2. Use Ctrl+C/V/X to copy, paste, or cut; Ctrl+Z to undo.
- Page Layout: On the Layout tab, adjust page settings. For margins, click Layout → Margins and choose a preset or Custom Margins 3. To switch orientation, click Layout → Orientation and pick Portrait or Landscape 4.
- Headers and Footers: Go to Insert → Header (or Footer), then pick a style. Type your header/ footer text or use Quick Parts. Double-click the header area or click Close Header and Footer to return to body. To remove a header/footer, go back to Insert → Header/Footer and choose Remove Header/Footer
- **Inserting Tables:** Place the cursor where needed. On the **Insert** tab, click **Table** and drag over the grid to select the number of rows and columns, or choose **Insert Table** to specify dimensions 6. The table is inserted, and the **Table Tools** appear for styling or resizing.
- Inserting Images: On the Insert tab, click Pictures. Choose This Device to insert from your computer. Select the image file and click Insert ⁷. Once inserted, use the Picture Format tab to resize, crop, or apply effects. You can also insert online or stock images via Insert → Online Pictures
- Additional Formatting: Use Styles (Home tab) to apply consistent headings or text styles. Adjust line spacing via Home → Line and Paragraph Spacing. Insert page breaks via Layout → Breaks. Save often with Ctrl+S.

MS Excel Basics

- Formulas & Functions: Click a cell and type = to start a formula. Common functions include =SUM(A1:A10) to add values 9, =AVERAGE(A1:A10) to compute the mean 10, and =IF(condition, value_if_true, value_if_false) for logical tests 11 (e.g. =IF(C2="Yes",1,2) returns 1 if C2 is Yes, else 2). Press Enter to apply. AutoSum (Σ icon) quickly inserts SUM for a row/column.
- **Cell Formatting:** Select cells and use the **Home** tab to change number format. Choose from the **Number** dropdown or press **Ctrl+1** to open *Format Cells*. You can set formats like General, Number, Currency, Date, Percentage, etc. 2 . For text formatting (bold, italics, font), also use the Home tab or right-click for font options. Adjust column width by dragging borders or double-clicking the divider.
- Sorting Data: Click anywhere in the data, then on the Data tab use A→Z (ascending) or Z→A (descending) to sort by the selected column ¹². For custom sorts, click Data → Sort, choose the column, sort on Values/Cell Color/etc., and set order (A→Z or Z→A) ¹³.

- **Filtering Data:** On the **Data** tab, click **Filter** to add dropdown filters to headers. Click a column's filter arrow, uncheck (Select All), and check the items you want to view 14 15. Use Text Filters/ Number Filters in the menu for conditions (e.g., "Greater Than 100"). Filtered rows hide others but keep the data intact 14 16.
- Charts: Select the range of data (including headers). Go to Insert and choose a chart type (e.g., Column, Line, Pie). You can use **Recommended Charts** to let Excel suggest a suitable chart 17. Once inserted, the **Chart Tools** tabs appear. Use **Chart Design** → **Chart Elements** to add titles or labels, and **Chart Styles** to format the look 18.
- Additional Features: Use Conditional Formatting on the Home tab to highlight values. Create tables by pressing Ctrl+T or using Insert → Table for structured filtering/sorting. Keyboard shortcuts: Ctrl+Shift+N for new folder (in Windows Explorer), F2 to edit a cell 19 20.

MS PowerPoint Basics

- Creating a Presentation: Open PowerPoint and choose a blank or themed template. On the Home tab, click New Slide to add slides. Use Slide Layouts (Home → Layout) to pick formats (Title slide, Title & Content, etc). Click in text boxes to add titles or bullet points. Save with Ctrl+S.
- **Design and Content:** To add content, use **Insert** tab. You can insert **Text Box** for custom text, **Table** for data tables, **Pictures/Icons** for images/graphics 7, or **SmartArt/Shapes** for diagrams. Adjust slide design via **Design** tab (themes, colors, fonts).
- Multimedia (Images, Audio, Video): For images, go to Insert → Pictures as in Word. To add audio, click Insert → Audio → Audio on My PC and choose a file ²¹. A speaker icon appears; use the Playback tab to choose start (On Click or Automatically) and volume ²². For video, use Insert → Video → This Device, pick the file, and click Insert ²³. Use the Playback tab to set it to play automatically or on click, and trim or add fade as needed ²⁴ ²⁵.
- Slide Transitions: Select a slide thumbnail. On the Transitions tab, pick a transition effect (e.g. Fade, Wipe) to see a preview ²⁶. Use **Effect Options** to change direction. Set **Duration** and choose whether to apply **On Click** or **After X seconds**. Click **Apply To All** to use the same transition on all slides ²⁶.
- Animations: To animate text or objects, first select the item on a slide. Then go to the **Animations** tab and choose an animation (Entrance, Emphasis, Exit, or Motion Paths) from the gallery 27. For text, you can animate by paragraph. Each effect is numbered on the slide, indicating play order. Use the **Animation Pane** to reorder or set multiple effects 28 27. Under **Animations**, the **Start** option lets you play on click, with previous, or after previous. You can change **Duration** and **Delay** to fine-tune timing 29.

Windows OS Basics

- File/Folder Operations: Open File Explorer (press Win + E) 30 . To create a new folder, click Home → New Folder or use Ctrl+Shift+N 31 19 . Rename a file or folder by selecting it and pressing F2 32 20 . To move or copy, drag and drop the item into the target folder (hold Ctrl while dragging to copy). You can also right-click a file and choose Copy or Cut, then right-click inside a folder and
- Control Panel & Settings: Open the Settings app via Start → Settings or press Win + I. In Settings, adjust system options (Network, Personalization, Updates, etc). For classic Control Panel, search

- "Control Panel" in the Start menu. Inside Control Panel, manage hardware (Printers, Devices) and software (Uninstall programs). In File Explorer, access folder options via **View** → **Options**.
- Taskbar and System Tray: Right-click the taskbar to open Taskbar settings. Pin apps by right-clicking an app icon and selecting Pin to taskbar. Use Win + (number) to launch or switch to a program pinned at that position on the taskbar ³³. Press Win + T to cycle through taskbar icons ³⁴. Shift+Right-click a grouped taskbar button to see its jump menu ³⁵. The system tray (bottom right) shows notifications and allows quick access to settings like volume and network.
- Shortcuts: Common Windows shortcuts include Ctrl+C/X/V (copy/cut/paste) ³⁶, Ctrl+S to save, Ctrl+P to print, Alt+Tab to switch windows, and Win + L to lock. Use Alt+F4 to close a window. Right-click menus are powerful (right-click a desktop icon for options). Learning a few keys (e.g. Win+E, F2, Ctrl+Shift+N) speeds up file management ¹⁹ ²⁰.

Internet Basics

- Using a Web Browser: Open a browser (e.g. Edge, Chrome). In the address bar, type a website URL (like www.example.com) or enter keywords and press Enter to search ³⁷. The browser will display the site or search results. Use the Back/Forward buttons to navigate pages, and Refresh (F5) to reload. Bookmarks (Favorites) save important URLs for quick access.
- Search Engines: Navigate to a search engine (e.g. Google, Bing). Type keywords in the search box and press Enter ³⁷. The results page lists links to websites matching those terms. Click a link to open the site, or refine your query. You can search directly from the address bar in most browsers (type keywords and press Enter) ³⁸. Use quotation marks for exact phrases (e.g. "sugar cookies") or minus sign to exclude words (e.g. cookies -chocolate) to refine results ³⁹.
- Email and Attachments: Open your email service (webmail like Gmail or an email app). Click Compose or New Email to create a message. Enter recipient address, subject, and body text. To attach a file or image, click the Attach (paperclip) icon and select files from your computer ⁴⁰ ⁴¹. In Gmail, after composing click Attach, browse to the file, and click Open ⁴⁰. In Outlook, click Home → Attach File, then choose Browse This PC and pick the file ⁴¹. Once attached, send the email. Remember that there may be file size limits (e.g. 25 MB for Gmail ⁴²).

Other Common Practical Topics

- Basic Linux Commands (if included): For labs covering Linux, common commands include 1s (list directory), cp (copy files), mv (move/rename), mkdir (create folder), rm (remove file), and grep (search text in files). Use chmod to change permissions. These are run in a terminal. (E.g. 1s -1 lists files with details.)
- **Printing Documents:** In any application, use **Ctrl+P** to open the Print dialog. Choose printer and options, then click Print.
- Shortcuts in Office Apps: Use Ctrl+F to find text, Ctrl+B/I/U for bold/italic/underline in Word. F7 runs spell-check. Ctrl+N creates a new document or workbook. Memorize key shortcuts relevant to each program for faster workflow.
- **Troubleshooting:** If a program freezes, use **Ctrl+Alt+Delete** to open Task Manager and end the task. For connectivity issues, check Wi-Fi in system tray or reboot the PC. Always save your work frequently to avoid data loss.

Sources: Authoritative guides from Microsoft and educational tutorials were used for these notes (see citations above) 1 8 9 11 17 12 2 26 27 31 30 37 40 41. 1 5 Insert a header or footer - Microsoft Support https://support.microsoft.com/en-us/office/insert-a-header-or-footer-b87ee4df-abc1-41f8-995b-b39f6d99c7ed ² Available number formats in Excel - Microsoft Support https://support.microsoft.com/en-us/office/available-number-formats-in-excel-0afe8f52-97db-41f1-b972-4b46e9f1e8d2 3 Change margins - Microsoft Support https://support.microsoft.com/en-us/office/change-margins-da21a474-99d8-4e54-b12d-a8a14ea7ce02 4 Change page orientation to landscape or portrait - Microsoft Support https://support.microsoft.com/en-us/office/change-page-orientation-to-landscape-or-portrait-9b5ac1af-9998-4a37-962ba82b689572a9 6 Insert a table - Microsoft Support https://support.microsoft.com/en-us/office/insert-a-table-a138f745-73ef-4879-b99a-2f3d38be612a 7 Insert pictures - Microsoft Support https://support.microsoft.com/en-us/office/insert-pictures-3c51edf4-22e1-460a-b372-9329a8724344 8 Set up a new mail merge list with Word - Microsoft Support https://support.microsoft.com/en-us/office/set-up-a-new-mail-merge-list-with-word-1a752328-b1b5-4865-96a2-e0acd561fe6f 9 SUM function - Microsoft Support https://support.microsoft.com/en-us/office/sum-function-043e1c7d-7726-4e80-8f32-07b23e057f89 10 AVERAGE function - Microsoft Support https://support.microsoft.com/en-us/office/average-function-047bac88-d466-426c-a32b-8f33eb960cf6 11) IF function - Microsoft Support https://support.microsoft.com/en-us/office/if-function-69aed7c9-4e8a-4755-a9bc-aa8bbff73be2 12 13 Quick start: Sort data in an Excel worksheet - Microsoft Support https://support.microsoft.com/en-us/office/quick-start-sort-data-in-an-excel-worksheet-60153f94-d782-47e2-96a8-15cbb7712539 14 15 16 Filter data in a range or table - Microsoft Support https://support.microsoft.com/en-us/office/filter-data-in-a-range-or-table-01832226-31b5-4568-8806-38c37dcc180e17 18 Create a chart with recommended charts - Microsoft Support https://support.microsoft.com/en-us/office/create-a-chart-with-recommended-charts-cd131b77-79c7-4537-a438-8db20cea84c0 19 20 30 33 34 35 36 Keyboard shortcuts in Windows - Microsoft Support https://support.microsoft.com/en-us/windows/keyboard-shortcuts-in-windows-dcc61a57-8ff0-cffe-9796-cb9706c75eec 21 22 Adding Audio in PowerPoint | Computer Applications for Managers https://courses.lumenlearning.com/wm-computerapplicationsmgrs-2/chapter/adding-audio-in-powerpoint-2/

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²³ ²⁴ ²⁵ Insert and play a video file from your computer - Microsoft Support https://support.microsoft.com/en-us/office/insert-and-play-a-video-file-from-your-computer-

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²⁶ Add, change, or remove transitions between slides - Microsoft Support

https://support.microsoft.com/en-us/office/add-change-or-remove-transitions-between-slides-3f8244bf-f893-4efd-a7eb-3a4845c9c971

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https://support.microsoft.com/en-us/office/animate-text-or-objects-305a1c94-83b1-4778-8df5-fcf7a9b7b7c6

31 Organize Your Files in New Folders | Microsoft Windows

https://www.microsoft.com/en-us/windows/learning-center/create-new-folders-to-organize-files

32 Rename a file - Microsoft Support

https://support.microsoft.com/en-us/office/rename-a-file-baea7aab-760b-4ee0-af58-06e940d505a4

37 38 39 Internet Basics: Using Search Engines

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40 42 Send attachments with your Gmail message - Computer - Gmail Help

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41 Send and receive attachments - Microsoft Support

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