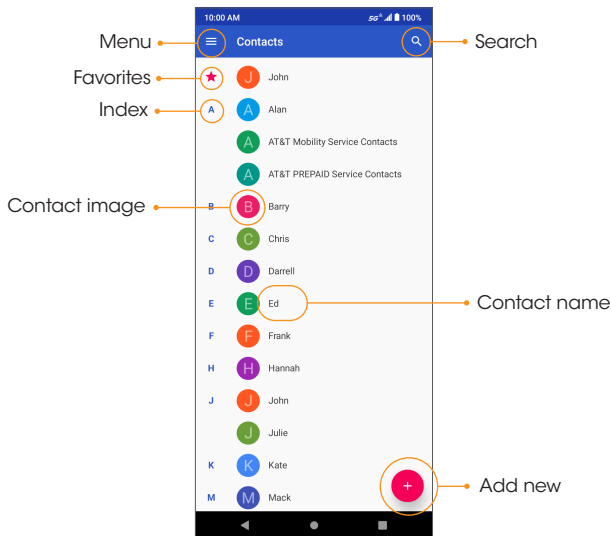


Contacts

From the Home screen, swipe up to access **Apps** and tap **Contacts** .



Item	Description
Add new	Add a new contact.
Search	Search contacts.

Item	Description
Contact	Tap to show a contact's details, place a call, send a message, and more.
Favorites	Add a contact as a favorite. You can view your favorite contacts in the Phone app.
Index	Browse contacts alphabetically.
Menu	View your contacts by labels or accounts, and adjust settings.

Add a contact

You can add contacts from the Contacts app. Enter details such as name, phone numbers, email addresses, mailing addresses, and more.

1. From the Contacts screen, tap  to add a contact.
2. If you have multiple accounts on your phone, select where you want to save the contact.
 - Select **Phone contact** to save your contact on your phone only; they will not be synced with your Google Account.
 - Select an account, such as Google, to save the contact to that account. These will be synced automatically with your account.
 - Select your SIM card name to save the contact to your SIM card. Your contact will be available on any phone your SIM card is mounted in.
3. Use the keyboard to enter information.

Note: To select a type (label) for a phone number, email address or postal

address (such as Mobile, Home, Work, etc.), tap the arrow and select the appropriate type.

4. When you are finished, tap **SAVE**.

Save a phone number

You can save a phone number to Contacts directly from the phone keypad.

1. From the Home screen, tap **Phone**  > **Keypad** .
2. Enter a phone number and tap **Create new contact** to add a new contact or tap **Add to a contact** to add the number to an existing contact.
3. To add the number to an existing contact, tap the contact you want to update and add the number to the desired field. To add a new contact, enter the name and any additional information.
4. Tap **SAVE**.

View contacts

From the Contacts screen, tap a contact to view the details.

Edit a contact

Add or edit a contact's information, assign a photo, customize with a unique ringtone, and more.

1. From the Contacts screen, tap the contact you want to edit.
2. Tap **Edit** .
3. Tap the field you want to change or add.
4. Add or edit the information, and then tap **SAVE**.

Delete a contact

You can delete a contact from the contact's details page.

1. From the Contacts screen, tap the contact you want to delete.
2. Tap **Menu**  > **Delete**.
3. Tap **DELETE**.

Share a contact

You can quickly share contacts using Bluetooth, Gmail, or text messages.

1. From the Contacts screen, tap the contact you want to share.
2. Tap **Menu**  > **Share**.
3. Select how you'd like to share the contact information card (vCard).

Messages

Send instant messages, media, and more with text and multimedia messages.

From the Home screen, tap **Messages** .

Text and multimedia messages

- With text messages (SMS), you can send and receive instant text messages.
- Multimedia messages (MMS) can contain text, photos, audio and video files, contact information cards (vCard), and more.

Note: See your service plan for applicable charges for messages.

Send a text message (SMS)

1. From the Messages screen, tap .
2. Enter a contact name or mobile number in the **To** field.
 - Enter phone numbers, contact names, or email addresses directly in the **To** field. If you're sending the message to several contacts, separate the phone numbers with a comma. As you enter information, any matching phone numbers from your contacts list are displayed. Tap the matching contact to add them as a recipient.
 - Scroll to find and select the contacts to whom you want to send the message. You can also create contact groups as recipients.
3. Tap the text box and compose your message.



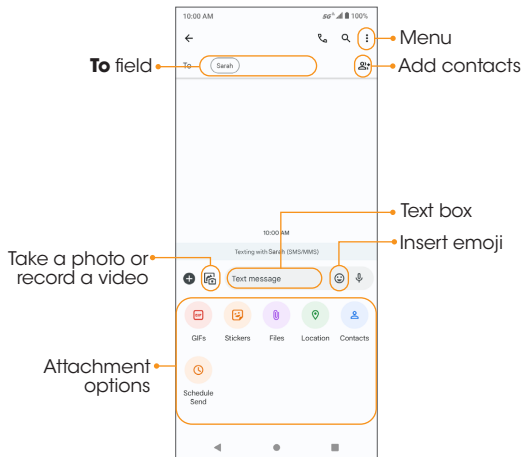
Note: Messages exceeding a limited amount of characters will be delivered as one message but may incur additional charges. A counter appears above **Send** ➤ to tell you how many characters you have entered and how many characters are left.

4. When done, tap **Send** ➤ to send the text message.

Note: Your text message automatically becomes a multimedia message if you enter an email address as the recipient, attach an item, or compose a very long message.

Send a multimedia message (MMS)

1. From the Messages screen, tap .
2. Fill in one or more recipients.
3. Tap the text box to compose your message.
4. Tap **Add**  to the left side of the text box to attach files.



Note: Attachment options may vary.

5. After adding an attachment, you can tap to view it, and tap  to delete the attachment.

Attachment options

Item	Description
	Take a photo or record a video to send, or select a saved photo or video files from Photos to send.
	Insert emoji.
	Add GIFs.
	Add stickers.
	Select one or more files from Files to send.
	Share your location.
	Share vCards.
	Schedule your message for another time. Tap it to choose the time you want to send the message. You can choose from among several preset times or tap Pick date and time and choose the exact time you like.

6. Tap **Send** ➤ to send the MMS message.

Chat features

With Chat features, you can send and receive messages over Wi-Fi or your data network, see when friends are typing or when they have read your message, share images and videos in high quality, and more.

Note: To use Chat features, you and the recipients must have a service plan that supports Chat and have Chat capable devices with chat features turned on.

To enable Chat features on your phone, follow the steps below:

1. From the Messages screen, tap **Menu**  > **Messages Settings** > **Chat features**.
2. Slide the **Enable chat features** switch to the **On**  position to enable it.

Messages settings

From the Messages screen, tap **Menu**  > **Messages Settings**.

Chat features

- **Enable chat features:** Slide the switch to enable or disable chat features.
- **Send read receipts:** Let others to know when you have read their message.
- **Show typing indicators:** Show your typing status to others.
- **Automatically resend as text (SMS/MMS):** Switch from chat if a message can't send.
- **Auto-download files you receive over mobile data:** Choose the maximum file size that can be automatically downloaded.
- **Auto-download files while roaming:** Download files automatically while roaming. Charges may apply.
- **Learn more about chat features:** Get more information about chat features.

Google Photos

Share sharp clarify video by link in text (SMS/MMS).

Notifications

Enable or disable notification icons when messages are received.

Bubbles

Enable or disable message bubbles by selecting **All conversations can bubble**, **Selected conversations can bubble**, or **Nothing can bubble**.

Hear outgoing and incoming message sounds

Enable or disable sounds when sending messages.

Pinch to zoom conversation text

Enable or disable pinching to zoom conversation text.

Message organization

Enable or disable view messages by category, set primary category view, and enable or disable auto-delete current and future OTP (one-time-password) after 24 hours.

Your current country

Display your current country.

Suggestions

Enable or disable smart reply, suggested actions, suggested stickers, etc.

Automatic previews

Enable or disable automatic preview cards for links, places, and other content that the Messages app is able to recognize over time.

Spam protection

Enable or disable spam detection function and report to Google.

Swipe actions

Choose Archive or Delete, to the right or left, or turn off swiping.

Advanced

- **Group messaging:** Enable or disable the ability to send MMS messages to multiple recipients in a group.
- **Auto-download MMS:** Enable or disable the ability to automatically retrieve and download incoming MMS messages.
- **Use simple characters:** Convert the text's special characters into a simple message.
- **Show iPhone reactions as emoji:**
- **Wireless emergency alerts:** View alert messages you've received.
- **SIM card messages:** View messages saved on your SIM card.
- **Phone number:** View your phone number.

About, terms & privacy

View more information about Message's current version, privacy policy, and terms of service.

Gmail

Use Gmail to send, receive, and manage your email messages. Before using Gmail, you must sign into your Google Account on your phone. See ["Google Account" on page 39](#) for details on signing in or creating an account.

Note: You can use the Gmail app to manage email for other accounts, such as Yahoo!, Hotmail, Outlook, and more.

Create and send an email message

1. From the Home Screen, open the Google folder, tap **Gmail** .



2. From the inbox, tap  to compose a new email message.
3. Enter the message recipient(s), subject, and message, and then tap **Send** .

Email composition options

- **Add Cc/Bcc recipients:** In the mail composition window, tap  in the **To** bar to add Cc/Bcc recipients.
- **Attach photos or videos:** In the mail composition window, tap  > **Attach file**. Tap the file you want to attach.
- **Save as a draft (Send later):** While composing your message, tap **Menu**  > **Save draft** or press the **Back** button  to save as a draft.
- **Delete mail being composed:** While composing your message, tap **Menu**  > **Discard**.

Note: View your drafts and sent mail from the inbox by tapping  > **Drafts** or **Sent**.

Open an email message from a notification

When a new email is received, you will see  in the Status bar.

1. Swipe the Status bar down to display the Notification panel.
2. Tap the new message from the Notification panel.

If you have two or more new email messages, tapping the notification will open the Gmail app.

Email settings

You can access settings for the Gmail app and for your individual email accounts from the Gmail Settings menu.

1. From the Gmail screen, tap **Menu**  > **Settings**.
2. Tap **General settings** to access settings for all accounts, or tap an account name to configure settings for a specific email account.

Internet and social networking

The following topics describe how to connect to and use the Internet on your phone and how to access popular social networking sites such as Facebook, Meet, and more.

Chrome browser

From the Home screen, tap **Chrome**  to browse the Internet, search for information, and bookmark your favorite web pages for convenient access.

Browsing web pages

1. Tap the address field.
2. Enter a web address or a keyword to browse for web pages.

Adding a bookmark

1. Open the web page you want to bookmark.
2. Tap **Menu**  > .

Opening a bookmark

1. From the Chrome browser screen, tap **Menu**  > **Bookmarks**.
2. Select the website you want to view.

Customizing browser settings

1. From the Chrome browser screen, tap **Menu**  > **Settings**.
2. In the Settings list, you can select options to customize the browser.

Tip: For more information, visit: google.com/intl/en/chrome/browser/mobile/.

Facebook

Post updates, see what your friends are up to, upload pictures and check-ins, and more with on-the-go Facebook access.

Sign in to your Facebook account or create a new account

1. From the Home screen, swipe up to access **Apps** and tap **Facebook** .
2. Enter your mobile number or email and password and tap **Log in**, or tap **Create new account** to join Facebook.
3. Once completed, your Facebook account will be added to your phone.

Use Facebook

Once you've either created an account or signed in, you can post and view updates, upload pictures, tag locations, and more, all from your phone.

1. From the Home screen, swipe up to access **Apps** and tap **Facebook** .
2. Tap **What's on your mind?** to type an update. You can also share photos and videos, start a live video, scroll through your Facebook feed, and more.

Connectivity

The following topics address your phone's connectivity options, including USB file transfer, Wi-Fi, Bluetooth, and more.

Transfer files between your phone and a computer

Tips: If you want to save data to an SD card on your phone, make sure the SD card is installed and active. For more information, see [*"First Time Setup after Inserting an SD Card" on page 18.*](#)

Important: Avoid removing the SD card while transferring data.

1. Connect your phone to your computer using the USB charging cable.
 - Insert the end of the cable to the charger/accessory jack at the bottom of the phone.
 - Insert the USB end of the cable into an available USB port on your computer. You may need to remove the USB cable from the AC adapter to access it.
2. Drag the Status bar down to display the Notification panel, and tap **Charging this device via USB** to access USB Preferences screen.
 - You can also access USB Preferences screen via Settings menu (**Settings > Connected devices > USB**)
3. Tap **File Transfer**. You can also select other options available.
4. On your computer, navigate to the detected device (such as through the My Computer menu) and open it.
5. If available, select a drive (**Internal shared storage** or **SD card**).
6. Select a folder and copy files from your computer to your phone or from your phone to your computer.
7. When done, disconnect your phone from your computer.

Wi-Fi

Wi-Fi provides wireless Internet access over distances of up to 300 feet. To use your phone's Wi-Fi, you need access to a wireless access point or hotspot.

Turn Wi-Fi on and connect to a wireless network

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Network & internet**  > **Internet** > **Wi-Fi**.
3. Slide the Wi-Fi switch to the **On**  position to enable Wi-Fi.
 - To disable Wi-Fi, slide the Wi-Fi switch to the **Off**  position.
4. Tap a Wi-Fi network to connect, enter the password (if applicable), and then tap **CONNECT**.

Your phone will be connected to the Wi-Fi network. You will see  in the status bar. For more information on Wi-Fi, see ["Internet" on page 108](#).

Bluetooth

Bluetooth is a short-range communications technology that allows you to connect wirelessly to a number of Bluetooth devices, such as headsets and hands-free car kits, Bluetooth-enabled handhelds, computers, printers, and wireless phones. The communication range for Bluetooth is approximately 30 feet.

There are different options and functions available with certain Bluetooth accessories.

- **Audio output:** Wirelessly listen to music, podcasts, etc.
- **Hands-free calls:** Call hands-free, using Bluetooth-capable hands-free devices and headsets.
- **Data exchange:** Exchange data with Bluetooth devices.

Enable Bluetooth

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Connected devices**  > **Connection preferences** > **Bluetooth**.
3. Slide the switch to the **On**  position to enable Bluetooth.
 - You can also enable it from Quick Settings panel. Swipe the Status bar down twice to access the Quick Settings panel and tap **Bluetooth**.

Tip: Turn off Bluetooth when not in use to conserve battery power.

Pair Bluetooth devices

1. From the Bluetooth screen, tap **Pair new device**.
2. Tap a device under **Available devices** and follow the on-screen instructions to pair with the device.
 - Make sure the device you want to connect with is discoverable via Bluetooth.

Connect to a paired Bluetooth device

From the **Connected devices** screen, tap a paired device to connect.

When the device is connected to your phone, you can then use the headset or car kit to listen to music or make and receive phone calls.

You can also use Bluetooth to transfer files between your phone and another Bluetooth-enabled device, such as a phone or computer. Send photos, videos, calendar events, contacts, and more.

For more information on Bluetooth, see [*"Bluetooth" on page 118*](#).



Apps and entertainment

The topics in this section will explore the features that make your phone so much more than a phone, from the camera and productivity apps to music, entertainment, and more.

Camera

You can use the camera or video camera to take and share photos and videos.



Camera cautions

If the lens is dirty: Fingerprints and smudges on the camera lens may result in blurry photos or videos. If this happens, wipe the lens with a soft, dry cloth.

Avoid exposure to direct sunlight: Do not expose the lens to direct sunlight for long periods, as this can affect the color filter and distort the color of photos and videos.

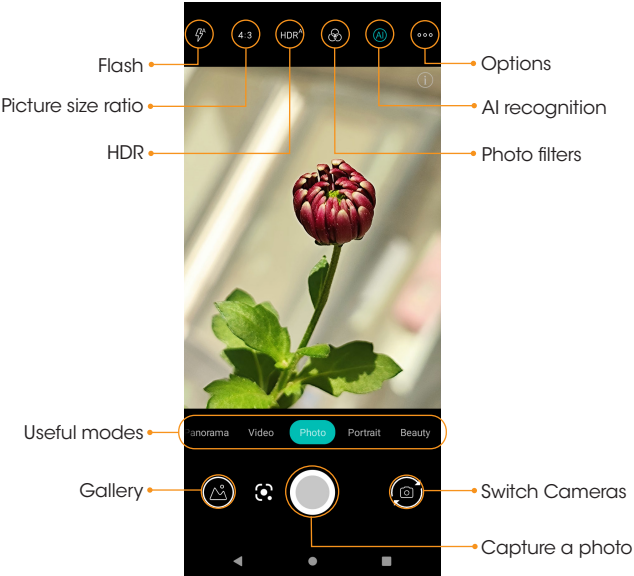
From the Home screen, tap **Camera** . You can also access the Camera with one of the following methods:

- From the Home screen, swipe up to access **Apps** and tap **Camera** .
- Press the **Power/Lock** key twice quickly.
- From the Lock screen, swipe up from the bottom right corner of the screen.

Note: If you have an SD card installed, set up, and formatted, photos and videos will automatically be saved to the SD card. See ["First Time Setup after Inserting an SD Card" on page 18](#) for more details. If no card is installed, photos and videos will be saved to your phone's memory.

Camera overview

The camera's viewfinder screen lets you view your subject and access camera controls and options.



Icon		Function/Service
	Options	Select camera modes and settings options.
	Flash	Activate or deactivate the camera flash.
	HDR enhance	Activate or deactivate High Dynamic Range enhance mode for clearer, more vivid photos.
	Photo filters	Choose from a variety of photo color filters.
	Picture size ratio	Set the photo quality and aspect ratio.
	AI recognition	Automatically detect various scenes and adapt the proper settings or parameters like brightness and contrast, color saturation, de-noise, etc.
	Gallery	View the last photo or video taken.
	Capture	Capture a photo.
	Switch cameras	Switch between the front and back cameras.

Useful modes	Function/Service
Professional	Manually adjust settings such as shutter speed, ISO, white balance, focus, etc. for professional quality photos.
Panorama	Capture more of the scene by combining images to create a panoramic photo.
Video	Record videos and access video settings.
Photo	Capture photos and access camera settings.
Portrait	Blur the background around the subject for a professional look.
Beauty	Smooth imperfections and brighten facial features for flawless photos.
Night	Optimize photos in low-light conditions.
More	• Time lapse: Record videos over a long period of time than speed it up for a fast action moment. • Slow motion: Record videos in slow motion. • Motion photo: With motion photos, you can get the flexibility of a recording with the same image quality you expect.

Note: Camera options vary based on mode, camera in use, etc.

Take a photo

From the Camera screen, aim the camera at your subject and tap  or press the **Volume** key to take the photo.

Record a video

1. From the Camera screen, tap **Video** to switch to Video mode.
2. Aim the camera at your subject and tap  or press the **Volume** key to start recording a video.
3. Tap  to hold the recording and tap  to resume. Tap  to stop recording and save your video. To take a picture during the recording, tap .

Scan a QR Code

Your phone's rear camera has a build-in QR code reader that will automatically scan codes for restaurant menus, calendar events, Wi-Fi networks, etc.

1. From the Home screen, tap **Camera** .
2. Aim your camera at the QR code you want to scan.
3. Your phone will recognize the code and display the relevant information. Usually a notification will appear at the top of the screen, then tap it to trigger the code's action.

Camera settings

You can adjust your camera's settings using the icons on the main camera screen and the full camera settings menu.

From the Camera screen, tap **Settings**  on the top right corner of the

Camera screen.

Icon		Function/Service
	Touch shot	Enable or disable the ability to capture photos by tapping on the camera screen.
	Self timer	Set a countdown timer.
	Shutter sound	Activate or deactivate the shutter sound when taking a photo.
	Framing lines	Show grid lines to help take professionally-composed photos.
	Geo tagging	Add location information to your photo.
	Picture size	Adjust photo size and ratio.
	Storage	Select a storage location. This option is available only when an SD card is inserted.
	Restore defaults	Reset to default camera settings.

Photos

Using the **Photos**  app, you can view photos and watch videos that you've taken, downloaded, or copied onto your storage card or phone memory. For pictures that are on your storage card or phone memory, you can do basic editing such as rotating and cropping. You can easily assign contact photos or wallpapers and share photos with your friends.

From the Home screen, tap **Photos** .

You can tap an image or video to view.

Zoom in or out on a photo or video

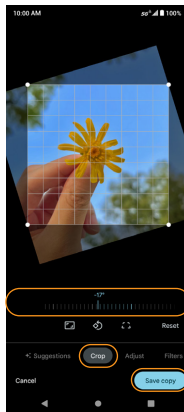
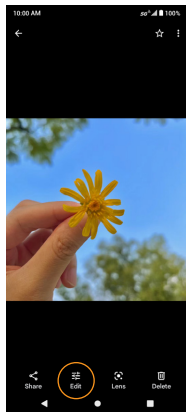
Tap the screen twice or pinch the screen to zoom in or out on a photo or video.



Edit photos

Rotate and save a photo

1. From the Photos screen, tap the photo you want to rotate.
2. Tap **Edit**  to access the Edit screen.
3. Tap **Crop** and adjust the slider to rotate the photo.
4. Tap **Save copy** to save a copy of your photo.



Crop a picture

1. From the Photos screen, tap the photo you want to crop.
2. Tap **Edit**  to access the Edit screen.
3. Tap **Crop**. A crop box appears on the photo.
4. To adjust the crop box size, drag the corners inward or outward to resize the crop box.
5. Tap **Save copy** to apply the changes to the photo and save.

The cropped photo is saved in the album as a copy. The original photo will remain unedited.



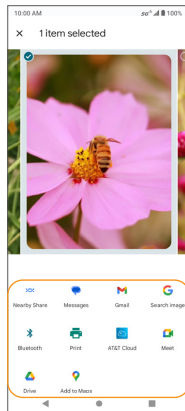
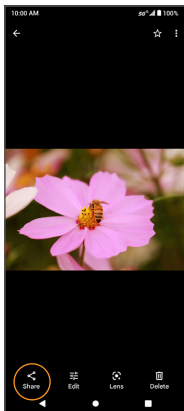
Share pictures and videos

The **Photos**  app allows you to send photos and videos using email or MMS messages. You can share photos and videos on your social networks, or send them to another phone or your computer via Bluetooth.

1. From the Photos screen, tap the photos or videos you want to share.

Tip: To select multiple items, touch and hold an image to turn on Multi-select mode. Tap to select the items you want to share.

2. Tap **Share** , then select to share using Bluetooth, Gmail, Meet, Messages, and more. Follow the on-screen prompts to send the photo or video.



Productivity

Use your phone to stay productive and organized with calendar, navigation, alarm, office, and more productivity apps.

Calendar

Use the **Calendar**  to create and manage events, meetings, and appointments. Your Calendar helps organize your time and reminds you of important events.

In order to sync with your Google calendar, you must sign in to a Google Account on your phone. See ["Google Account" on page 39](#) for more information on signing in or creating a Google Account.

Calendar view

1. From the Home screen, swipe up to access **Apps** and tap **Calendar** .
2. Tap **Menu** .
3. Select from one of the following calendar views:
 - **Schedule:** Display all events.
 - **Day:** Display today's schedule by hour. Slide the screen to the left and right to display the previous and the next day, respectively.
 - **3 days:** Display the previous day, today, and the next day. Slide the screen to the left and right to view the previous and next three days.
 - **Week:** Display the current week. Slide the screen to the left and right to view the previous and next week, respectively.
 - **Month:** Display the current month. Slide the screen to the left and right to view the previous and next month, respectively.

Add an event

1. From the Calendar screen, tap **Add**  to add an event.
2. Set the event details, such as title, time, location, people to join in, notification, and more.
3. When finished, tap **Save**.

View calendar events

From the Calendar screen, tap a date and an event to view the details.

Edit an event

1. From the Calendar screen, tap a date and an event to view the details.
2. Tap **Edit**  to edit the event.
3. When you are done editing, tap **Save**.

Delete an event

1. From the Calendar screen, tap a date and an event to view the details.
2. Tap **Options**  > **Delete** to delete the event.

Calendar settings

1. From the Calendar screen, tap **Menu**  > **Settings** > **General**.
2. Tap an option to adjust Calendar settings.

Google Maps

Use the Google Maps app to determine your location, get directions, browse local businesses and attractions, rate and review places, and more.

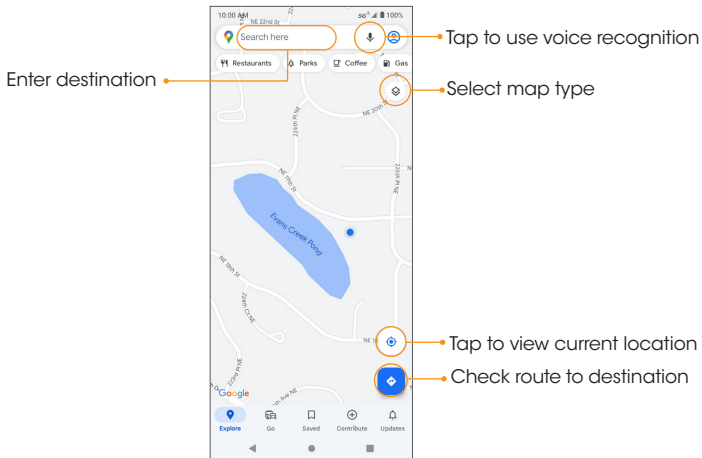
Enable location services on your phone

Before using Google Maps, you must enable your phone's location feature. For information about setting your phone's location options, see ["Location" on page 146](#).

Search for destinations

Use Google Maps to locate and map a specific address or destination.

1. From the Home screen, swipe up to access **Apps** and tap **Maps** . You can also access Maps from the Google folder on the Home screen. If prompted, follow the on-screen instructions to accept terms of use.
2. Tap **Search here**.
3. Enter an address, city, facility name, etc., then choose a search result. You will see your location on the map.



Google Maps operations

- **View current location:** Tap  to find your current location on the map.
- **Explore nearby venue categories:** Browse nearby venues by selecting a category such as restaurants, parks, hotels, and more.
- **Select map types for different views:** Tap **Map Type**  and choose your map view, or select to view map details such as traffic, street view, etc.
- **Find a route to your destination:** Tap **GO** , enter your desired start location and destination, and tap a method of transportation (car, public transit, or on foot) for a list of step-by-step directions to your destination.

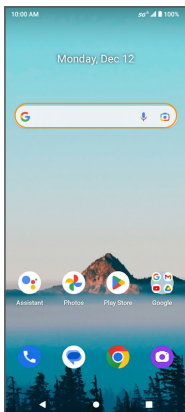
Google Search

Search for information saved on the phone, in apps, and on the Internet.

1. From the Home screen, tap the Google Search widget.
 - You can also access Google Search by swiping up on the Home screen to access **Apps** and tapping **Google** .
2. Type your search keywords and tap **Search** .
3. To search by voice, tap **Google Voice Search**  in the search bar and say your search terms.

Tip: To quickly access Google Voice Search from any screen, press and hold **Home** .

4. Search results will appear.



Calculator

Your phone's convenient built-in calculator lets you perform basic and advanced mathematical equations.

1. From the Home screen, swipe up to access **Apps** and tap **Calculator** .
2. Enter the first number.
3. Tap a mathematical function key, then enter the second number.
4. Tap  to view the result.
5. Tap  to clear the results.

View calculator history

1. From the Caculator screen, tap **Menu**  > **History**, or drag down on the **History**  bar to view the calculator history.
2. To clear the calculator history, tap **Menu**  > **Clear**.
3. To return to the calculator, drag the **History**  bar back up or tap the **Back** button .

Clock

The Clock app allows you to set alarms, view different world times, use a stopwatch, set a timer, manage your bedtime, and use your phone as a desk clock.

Set the date and time manually

Your phone uses the wireless network to receive the current date and time automatically. You can also set the date and time manually.

1. From the Home screen, swipe up to access **Apps** and tap **Clock** .
2. Tap **Menu**  > **Settings** > **Change date & time** > **Set time automatically** > **Off**.
3. Set the date and time manually.

Create a new alarm

1. From the Clock screen, tap **Alarm**  >  to add a new alarm.
2. Set the time for the alarm and tap **OK**. You can also tap  to enter the time directly.
3. Set more alarm details, if desired.
 - **Add label:** Enter a name for the alarm.
 - **Repeat:** Select the days to repeat the alarm.
 - **Schedule alarm:** Set start date and end date of the alarm.
 - **Alarm sound:** Select a sound to play for the alarm.
 - **Vibrate:** Activate alarm vibration.
 - **Google Assistant Routine:** Add the current alarm to your Google Assistant Routine.
 - **Delete:** Delete the current alarm.

Turn an alarm off

1. To turn an alarm off, drag the **Alarm Clock**  to **Stop**.
2. To snooze the alarm for 10 minutes, drag the **Alarm Clock**  to **Snooze**.

Delete an alarm

1. From the Alarm screen, tap the alarm you want to delete from the alarm list.
2. Tap **Delete**.

World clock

The World clock lets you keep track of the current time in multiple cities around the globe.

1. From the Clock screen, tap **Clock**  >  to access the World clock screen.
2. Type to enter a city name and select the city you want to add from the list.
 - To remove a city, swipe the city to the left side and tap .

Timer

1. From the Clock screen, tap **Timer**  to access the Timer screen.
2. Enter the amount of time into the Timer.
3. Tap  to begin timing.
4. Tap  to pause timing.
 - Tap  again to resume timing.
 - Tap  to reset the timer back to the original amount of time.
 - Tap  to delete the timer.

- Tap  to add another timer. Swipe up and down to view other active timers.

Stopwatch

1. From the Clock screen, tap **Stopwatch**  to access the Stopwatch screen.
2. Tap  to begin the stopwatch.
3. Tap  to stop the stopwatch.
 - Tap  again to resume timing.
 - Tap  to reset the stopwatch to zero.
 - Tap  to add lap splits.

Bedtime

1. From the Clock screen, tap **Bedtime**  to access the Bedtime screen.
2. Tap **Get started** and set your sleep time and wake-up time.

There are the following options for you to manage your sleep:

- **See recent bedtime activity:** Keep track of your screen time and see estimates of time spent in bed. This is based on when your phone remained motionless in a dark room.
- **Listen to sleep sounds:** You can play soothing music to help you fall asleep. Sleep sounds don't play automatically.
- **See your upcoming events:** To make sure your alarm is set before any events, allow **Clock** to access your calendar.

Note: You can add **Bedtime mode** to the Quick Settings Panel to enable or disable this mode quickly and easily.

Entertainment and activities

The following topics provide an overview of your phone's entertainment apps.

YouTube

View videos uploaded to YouTube and upload your own videos.

View YouTube videos

Note: You can use the YouTube app to view videos on YouTube even if you aren't signed in to a YouTube account.

1. From the Home screen, swipe up to access **Apps** and tap **YouTube** .

Note: You can also access YouTube from the Google folder on the Home screen.

- If you are prompted to provide confirmation to use the on-screen instructions to continue.
2. Browse YouTube channels and tap a video to view.
 3. The video will play on your phone screen. Tap the screen to pause or resume play while watching.

Post a video to YouTube

You can post videos to your YouTube account from your phone. Before posting, you must set up a YouTube account and sign in on your phone.

1. From the YouTube screen, tap **Record/Post Video**  > **Upload a video**.

Note: You may be prompted to allow access to your photos, camera, and microphone. Tap **ALLOW ACCESS** to continue.

2. Select a video to upload, record a new video to upload, or stream a live video. Enter a title, description, and tags, and select a privacy setting.



Settings

The topics in this section will cover your phone's settings and options.

Basic settings

From the Home screen, swipe up to access **Apps** and tap **Settings**  to access your phone's Settings menu. You can also access the Settings menu from the Status bar. Swipe the Status bar down twice and tap **Settings** .

The table below outlines the Settings categories.

Category	Description
 Network & internet	Set Wi-Fi, mobile network, Airplane mode, Hotspot, VPN, Data Saver, etc.
 Connected devices	Manage the settings on devices connected by Bluetooth, Cast, USB, etc.
 Apps	View your recently opened apps, adjust the settings on default apps, permissions, etc.
 Notifications	Manage the settings on notifications.
 Battery	Monitor your phone's battery usage.
 Storage	Manage internal storage on your phone and provide menu choices for an optional SD card (not included).
 Sound & vibration	Set ringtone, operation tones, etc.
 Display	Set brightness, font size, etc.
 Wallpaper & style	Set wallpapers, colors, themed icons, and app grid.

Category	Description
 Accessibility	Set accessibility options such as screen magnification, audio adjustment, etc.
 Security	Set a screen lock method, manage fingerprints, etc.
 Privacy	Manage apps permissions, set your account activity and personal data, etc.
 Location	View and manage apps using your location.
 Safety & emergency	Add your medical information and emergency contacts, enable Emergency SOS and Emergency Location services, etc.
 Passwords & accounts	Manage all your email, social networking, and picture and video sharing accounts.
 Digital Wellbeing & parental controls	Statistics, screen usage time, app timers, bedtime schedules, manage notifications, etc.
 Google	Check and set Google service options.
 System	Set language and time, manage reset options, enable backup, and view more important information about your phone.
 About phone	View information about your device.
 Software Update	Manage software updates for your phone.

Network & internet

Manage network and connectivity settings.

Internet

Wi-Fi

Connect your device to a Wi-Fi network

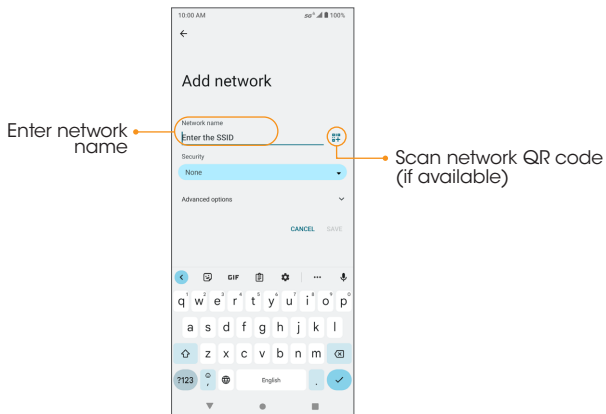
1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Network & internet**  > **Internet**.
3. Slide the **Wi-Fi** switch to the **On**  position to turn it on.

Your phone will automatically search for available networks and you will be able to see the names and security settings of in-range Wi-Fi networks.

 - To disable Wi-Fi, slide the **Wi-Fi** switch to the **Off**  position.
4. Tap the Wi-Fi network you want to connect to, enter the password (if applicable), and tap **CONNECT**. Your phone will be connected to the selected Wi-Fi network.
 - The password for a household wireless LAN router is sometimes found on a sticker on the router (WEP, WPA, KEY, etc.) or QR code. Contact the router manufacturer for information. For the password for a public wireless LAN, check with user's service provider.
 - Entering a password is not required if an access point is not security protected.

Manually connect to a Wi-Fi network

1. From the Internet screen, slide the **Wi-Fi** switch to the **On**  position to turn Wi-Fi on.
2. Scroll down and tap **Add network**.
3. Enter the required information and tap **SAVE** to continue.



- **Network name:** Enter the network name.
- **Security:** Select a security option and enter your password.
- **Advanced options:** Show advanced options, such as IP settings and Proxy settings.

Network preferences

Create and manage wireless access points.

- **Turn on Wi-Fi automatically:** Wi-Fi will be turned on automatically when you are near high-quality saved networks, like your home network.
- **Notify for public networks:** Receive notifications about open networks when Wi-Fi is turned on.
- **Passpoint:** Enable or disable the function of seamlessly connecting to Passpoint™ enabled Wi-Fi access points without needing a password.
- **Install certificates:** Allow authentication to access files.
- **Wi-Fi Direct:** Connect to devices with Wi-Fi Direct.

Saved networks

Tap to view your saved Wi-Fi networks.

Non-carrier data usage

Tap to view the Wi-Fi data used by each app.

Wi-Fi Calling

1. From the Network & internet screen, tap **Wi-Fi Calling**.
2. Slide the switch to the **On**  position to enable **Wi-Fi Calling**.

Note: To use Wi-Fi Calling, you will need to set up an Emergency Address. When the Emergency Address is successfully set, you will see the Wi-Fi Calling icon  in the Status bar.

- **About Wi-Fi Calling:** Tap to view more information about Wi-Fi Calling.
- **Network preference:** Select the preferred network.

- **Emergency Address:** Update your emergency address. This address will be used by Emergency services as your location if you make an emergency call (911) over Wi-Fi from this phone within the U.S.

Note: You must have an active Wi-Fi connection to send or receive calls and messages with Wi-Fi Calling.

Mobile network

From the Network & internet screen, tap **Mobile network**.

- **Mobile Data:** Enable data access on your mobile network.
- **International Data Roaming:** Enable international data roaming.
- **App data usage:** View the mobile data usage of each app.
- **Data warning & limit:** View the following data management options:
 - **Mobile data usage cycle:** Set the date the data usage cycle resets.
 - **Set data warning:** Enable alerts when your mobile data usage reaches the amount set.
 - **Data warning:** Set the data usage amount. Your phone will notify you when it reaches the amount set. Data usage measured by your phone is an approximate amount, and it may differ from the actual amount.
 - **Set data limit:** Enable data limits.
 - **Data limit:** Set a data limit. Your phone will turn off mobile data when it reaches the limit set.
 - **Enhanced LTE Services:** Enable HD Voice and advanced communication services where available.

- **Advanced:**
 - **Mobile Network Diagnostics:** Enable sending diagnostic data automatically to the provider to improve service.
 - **Automatically select network:** Enable network selection automatically.
 - **Choose network:** Select to choose your desired network. This option will be grayed out when the Automatically select network function is enabled.
 - **Access Point Names:** Select or add APNs.

Airplane mode

Disable all network communication.

1. From the Network & internet screen, tap **Airplane mode**.
2. Slide the switch to the **On**  position to activate Airplane mode. You can directly enable or disable Airplane mode via Quick Settings Panel.

SIM cards

Manage SIM card settings.

Hotspot & tethering

Share your phone's internet connection with other devices.

From the Network & internet screen, tap **Hotspot & tethering**

Note: Using your phone as a mobile hotspot increases battery consumption and data usage.

Mobile hotspot

Use your phone as a Mobile hotspot.

1. From the Hotspot & tethering screen, tap **Mobile Hotspot**.
2. Slide the switch to the **On**  position to activate the mobile hotspot.
 - **Hotspot name:** Set the hotspot name.
 - **Security:** Turn hotspot security on or off.
 - **Hotspot password:** Tap to set a hotspot password.
 - **AP band:** Select Access Point band, 2.4 GHz or 5GHz.
 - **Turn off hotspot automatically:** Turn off the hotspot automatically if no devices are connected.
 - **Mobile Hotspot turn off timer:** Set a timer for the hotspot to automatically turn off.
 - **Maximum connections:** Tap to set the maximum number of users allowed to connect to the hotspot.
 - **Connected users:** View your connected users.
 - **Blocked users:** View your blocked users.

USB tethering

Share your phone's internet connection via USB.

1. Connect your phone to the device that you want to share your internet with using a Type-C USB cable before continuing to the next step.
2. From the Hotspot & tethering screen, tap **USB tethering**.
3. Slide the switch to the **On**  position to enable USB tethering.

Bluetooth tethering

Share your phone's internet connection via Bluetooth.

1. From the Hotspot & tethering screen, tap **Bluetooth tethering**.
2. Slide the switch to the **On**  position to enable Bluetooth tethering.

Data Saver

To help reduce data usage, Data Saver prevents some apps from sending or receiving data in the background.

From the Network & internet screen, tap **Data Saver**.

- **Use Data Saver:** Enable the data saving feature.
- **Unrestricted data:** Set apps to be allowed to use restricted data when Data saver is on.

VPN (Virtual Private Networks)

Note: You need to set a screen lock PIN or password before you can use a VPN.

Add a VPN profile

1. From the Network & internet screen, tap **VPN**.
2. Tap **+** on the top right corner of the VPN screen to add a VPN profile.
3. Follow the prompts to set up a VPN.

Edit and delete a VPN

1. From the VPN screen, tap  next to the VPN you want to edit or delete.
2. Edit the VPN and tap **SAVE**, or tap **FORGET** to delete the VPN.

Connect to a VPN

From the VPN screen, tap the VPN you want to connect, enter your login information, and tap **CONNECT**.

- To disconnect, tap the VPN, and tap **DISCONNECT**.

Private DNS

1. From the Network & internet screen, tap **Private DNS**.
2. Select your Private DNS mode.

Wireless Emergency Alerts

From the Network & internet screen, tap **Wireless Emergency Alerts**.

- **Allow alerts:** Receive wireless emergency alert notifications.
- **National alerts:** National warning messages. Can't be turned off.
- **Extreme threats:** Enable to receive extreme threats to life and property.
- **Severe threats:** Enable to receive severe threats to life and property.
- **AMBER alerts:** Enable to receive AMBER alerts (child abduction emergency bulletins).
- **Public safety messages:** Enable to receive public safety messages (recommended actions that can save lives and property).
- **State and local tests:** Enable to receive test messages from state and local authorities.
- **Emergency alert history:** View all the alerts you've received before.
- **Vibration:** Enable vibration when receiving an alert.
- **Alert reminder:** Set alert reminder.
- **Spanish:** Enable to receive emergency alerts in Spanish when possible.

Connected devices

Manage settings for connected devices.

1. From the Home screen, swipe up to access **Apps** and tap **Settings**  .
2. Tap **Connected devices**  .

USB

Connect your phone to a computer using a USB cable to transfer data, share network connectivity, or charge your phone.

From the Connected devices screen, tap **USB**.

- **USB controlled by:**
 - **Connected device:** Set the connected device to control the USB.
 - **This device:** Set your phone to control the USB.
- **Use USB for:**
 - **File Transfer:** Select to transfer files between your phone and your computer.
 - **USB tethering:** Select to set the USB tethering mode.
 - **MIDI:** Select to set this device as MIDI.
 - **PTP:** Select to transfer PTP photos.
 - **No data transfer:** Select to set No data transfer mode.

Connection preferences

Manage various connection preferences.

From the Connected devices screen, tap **Connection preferences**.

Bluetooth

Wirelessly hear calls, connect speakers, transfer data, and more.

Activate Bluetooth

1. From the Connection preferences screen, tap **Bluetooth**.
2. Slide the switch to the **On**  position to turn it on. You can directly enable or disable Bluetooth via Quick Settings Panel.

Rename this device

1. From the Bluetooth screen, tap **Device name**.
2. Enter a new name and tap **RENAME** to save.

Pair a Bluetooth device

1. From the Bluetooth screen, tap **Pair new device**.
2. All the available devices are listed out.
3. Select the device you want to connect to within the Available devices list and follow the prompts to connect.
 - Make sure the device you want to connect with is discoverable via Bluetooth.
 - Depending on the device, you may be required to enter or accept a passkey.

Rename a paired device

1. From the Connected devices screen, tap **Settings**  next to a paired device name.
2. Tap **Edit** , enter a new name, and tap **RENAME** to save.

Connect/Disconnect to/from a paired device

1. From the Connected devices screen, tap **Settings**  next to a paired device name.
2. Tap **CONNECT** or **FORGET**.

Receive data via Bluetooth

When a device attempts to send a file to your phone using Bluetooth, you will be prompted to accept or decline the request.

1. Tap **ACCEPT**.
2. To view the file received, swipe the Status bar down and tap **Bluetooth share: Received files**, or locate the file from Bluetooth settings menu.

NFC

Allow data exchange when the phone touches another NFC-capable device.

1. From the Connection preferences screen, tap **NFC**.
2. Slide the switch to the **On**  position to turn it on.

Cast

Scan for nearby devices to connect to and set them up. A notification will appear when there are available devices to connect to.

1. From the Connection preferences screen, tap **Cast**.
2. Tap **Menu**  > **Enable wireless display**.
3. Tap a device to connect.

Printing

Connect your device to a printer on the same Wi-Fi network.

Add printer

1. From the Connection preferences screen, tap **Printing**.
2. Tap **Add service**.
3. Tap an option to add a printer by IP address or by Wi-Fi Direct.

Chromebook

1. From the Connection preferences screen, tap **Chromebook**.
2. Tap to manage connections with your Chromebook.

Nearby Share

Nearby Share allows the rapid short-range exchange of images, videos, text, contact info, directions, YouTube videos, and other data via Bluetooth.

1. From the Connection preferences screen, tap **Nearby Share**.
2. Slide the switch to the **On**  position to enable this function. You can directly enable or disable Nearby Share feature via Quick Settings Panel.

Device name

Rename your device. Enter a new name and tap **RENAME** to save.

Device visibility

Set your device's visibility. You can make yourself visible to **Everyone** or some people from **Contacts**, or **Hidden**.

Data

Set data usage method. You can choose **Data**, **Wi-Fi Only**, or **Without internet** (Files shared offline).

Show notification

Slide the switch to the **On**  position to show notification when devices are sharing nearby.

Note: Nearby Share requires both sender and recipient devices' Bluetooth and Location to be turned on, both devices are unlocked, and close together.

If the content can be sent, a bottom sheet will appear with a list of available contacts to share with.

Android Auto

Use Android Auto app to control your phone's maps, media and messages functions, with the Google Assistant while you drive.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Connected devices**  > **Connection preferences** > **Android Auto**.
3. Tap **CONNECT A CAR** button to view connection details.
4. Plug your phone into this car's Android Auto-compatible USB port.
5. When connected, supported apps will be mirrored from your phone to your car's display.

Note: Hands-free operation through voice commands is encouraged to minimize driving distraction.

Apps

View current running applications, manage permissions, and more.

1. From the Home screen, swipe up to access **Apps** and tap **Settings**  .
2. Tap **Apps**  .

Recently opened apps

View detailed information. Tap **OPEN** to access this app, tap **DISABLE** to disable this app, or tap **FORCE STOP** to stop this app.

Default apps

You can set the default app for the browser, phone, messages, etc. You can also set default apps for opening links.

Screen time

You can tap  on the right side of most apps to set daily timers. When the app timer ends, the app is paused for the rest of the day.

Unused apps

View apps that you have not used for a long time. You can un-install them to free up some space.

Special app access

View app access for special functions, such as display over other apps, unrestricted data, usage access, etc.

Notifications

Manage the settings on notifications.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Notifications** .

App settings

Control notifications from individual apps.

1. From the Notifications screen, tap **App settings**.
2. Apps were categorized into four types: **Most recent**, **Most frequent**, **All apps**, **Turned off**. Select a category from the drop-down list, and choose the app you want to adjust the notification settings for.

Notification history

View your recent and snoozed notifications.

1. From the Notifications screen, tap **Notification history**.
2. Slide the switch to the **On**  position to turn it on.
3. Your recent and snoozed notifications will appear.

Conversations

View priority and modified conversations.

1. From the Notifications screen, tap **Conversations**.
2. Your priority and modified conversations are displayed.

To change conversation settings, follow the below steps:

1. Swipe the Status bar down to display the Notification panel.
2. Touch and hold a conversation.

Bubbles

Enable message conversations display as bubbles, floating on top of other apps.

1. From the Notifications screen, tap **Bubbles**.
2. Slide the switch to the **On**  position to allow apps to show bubbles.

Device & app notification

Control which apps and devices can read notifications.

1. From the Notifications screen, tap **Device & app notifications**.
2. You can see the devices and apps that allowed and not allowed to access notifications.

Notifications on lock screen

1. From the Notifications screen, tap **Notifications on lock screen**.
2. Select how you want notifications to be displayed on the lock screen.

Do Not Disturb

1. From the Notifications screen, tap **Do Not Disturb**.
2. Tap  to enable Do Not Disturb mode.
3. You can set What can interrupt Do Not Disturb, Schedules, etc.

Wireless emergency alerts

1. From the Notifications screen, tap **Wireless emergency alerts**.
2. Slide the **Allow alerts** switch to the **On**  position to allow alerts.
3. Slide the alert switches to turn them on or off. For more information, see [*"Wireless Emergency Alerts" on page 116*](#).

Hide silent notifications in status bar

1. From the Notifications screen, tap **Hide silent notifications in status bar**.
2. Slide the switch to the **On**  position to hide silent notifications in status bar.

Allow notification snoozing

1. From the Notifications screen, tap **Allow notification snoozing**.
2. Slide the switch to the **On**  position to allow temporarily snoozing certain notifications.

Notification dot on app icon

1. From the Notifications screen, tap **Notification dot on app icon**.
2. Slide the switch to the **On**  position to allow the display of notification dots on an app icon.

Enhanced notifications

1. From the Notifications screen, tap **Enhanced notifications**.
2. Slide the switch to the **On**  position to automatically show suggested actions and replies.

Battery

Monitor your phone's battery usage through the Battery settings menu. Check the battery consumption and percentage.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Battery** .

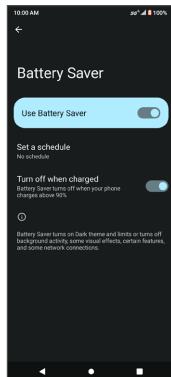
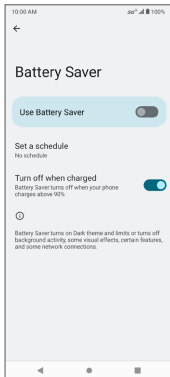
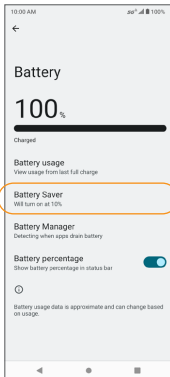
Battery usage

View battery usage from last full charge.

1. From the Battery screen, tap **Battery usage**.
2. You can view the battery percentage that each apps used.

Battery Saver

From the Battery screen, tap **Battery Saver**.



- Slide the **Use Battery Saver** switch to the **On**  position to turn the battery saver mode on. The **Battery Saver** will automatically turn off when the phone is plugged in.
- **Set a schedule:** Tap **Based on percentage** and drag the slider to the percentage you need. The **Battery Saver** will turn on automatically when your phone reaches that battery percentage.

Battery Manager

1. From the Battery screen, tap **Battery Manager**.
2. Slide the switch to the **On**  position to enable the battery manager.
3. Monitor the amount of battery being used by apps. If battery usage increases too much, your phone will suggest actions you can take.

Battery percentage

From the Battery screen, slide the **Battery percentage** switch to the **On**  position to show the battery percentage in the Status bar.

Storage

The Storage settings menu allows you to manage internal storage on your phone and provides menu choices for an optional SD card (not included).

Note: The descriptions of this section are based on the scenarios that an SD card is inserted in your phone.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Storage** .
3. Tap **This device**  > **THIS DEVICE**, then tap a category to view the storage amount used by each app.
4. Delete backed up files by tapping **Free up space**.

Storage manager

Storage manager removes backed up photos and videos from your device.

From the Storage screen, slide the **Storage manager** switch to the **On**  position to enable the storage manager.

SD card

From the Storage screen, tap **This device**  > **SD CARD** to view files stored on your SD card.

Tap **Menu**  to access the following options:

- **Rename:** change the SD card name.
- **Eject:** eject the SD card to allow for safe removal.
- **Format:** format the SD card.
- **Format as internal:** set the SD card as internal storage.

Sound & vibration

Control your phone's audio, from ringtones and alerts to tap tones and notifications.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Sound & vibration** .
3. Drag the slider to adjust the volumes.
 - **Media volume:** Adjust the media and alert notification volume.
 - **Call volume:** Adjust the call volume.
 - **Notification volume:** Adjust the notification volume.
 - **Ring volume:** Adjust the ring volume.
 - **Alarm volume:** Adjust the alarm volume.

Do Not Disturb

1. From the Sound & vibration screen, tap **Do Not Disturb**.
2. Tap **TURN ON NOW** to enable Do Not Disturb mode. Some notifications will be silenced when Do Not Disturb is turned on.
3. You can set What can interrupt Do Not Disturb, Schedules, etc.

Phone ringtone

1. From the Sound & vibration screen, tap **Phone ringtone**.
2. Select a ringtone for incoming phone calls. You can customize your own ringtone by tapping **Add ringtone**.

Live Caption

Live Caption detects speech on your device and automatically generate captions.

1. From the Sound & vibration screen, tap **Live Caption**.
2. Slide the Use Live Caption switch to the **On**  position to enable this function.
3. You can adjust settings for the following aspects:
 - **Languages:** English only for now. More languages coming soon.
 - **Hide profanity:** Enable to replace profanity with asterisk symbol.
 - **Show sound labels:** Enable to include sounds like laughter, applause and music.
 - **Live Caption in volume control:** Enable Live Caption in volume control.
 - **Help:** Get detailed instructions on how to use Live Caption.

Media

From the Sound & vibration screen, tap **Media**.

- **Pin media player:** Have media player stays open in the Quick Settings Panel when the media session has ended.
- **Show media recommendations:** Show media recommendations basing on your activities.

Advanced

- **Vibrate & haptics:** Enable or disable vibration for calls, notifications, and alarms. Enable or disable interactive haptics.
- **Shortcut to prevent ringing:** Press the Power/Lock key and the Volume up key together to activate Vibrate or Mute mode. Slide the switch to the **On**

 position to enable the Prevent ringing function.

- **Default notification sound:** Select the default notification sound. You can customize your own notification sound by tapping **Add notification**.
- **Default alarm sound:** Select the default alarm sound. You can customize your own alarm sound by tapping **Add alarm**.
- **Dial pad tones:** Enable dial pad tones.
- **Screen locking sound:** Enable screen locking sounds.
- **Charging sounds and vibration:** Enable the charging sounds and vibration.
- **Touch sounds:** Enable touch sounds.
- **Always show icon when in vibrate mode:** Enable to always display vibrate icon on status bar when in vibrate mode.
- **Sound enhancement:** Enable volume booster for speakers or high-fidelity mode to enhance sound.

Display

Use the phone's Display settings menu to adjust items such as wallpaper, brightness, screen timeout, and more.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Display** .

Brightness level

1. From the Display screen, tap **Brightness level**.
2. Drag the slider to adjust the brightness level manually.

Dark theme

From the Display screen, slide the Dark theme switch to the **On**  position to enable the dark theme.

Night Light

1. From the Display screen, slide the Night Light switch to the **On**  position to enable Night Light.
2. When enabled, you can set a Night Light schedule and intensity. You can also enable automatic Night Light until sunrise.

Adaptive brightness

1. From the Display screen, tap **Adaptive brightness**.
2. Slide the switch to the **On**  position to enable Adaptive brightness.
3. When turned on, your phone will automatically adjust screen brightness based on the lighting conditions.

Screen timeout

1. From the Display screen, tap **Screen timeout**.
2. Set screen timeout interval. Your screen will automatically go to sleep after the set amount of time.

Advanced

- **Auto-rotate screen:** Enable screen rotation.
- **Font size:** Drag the slider to adjust the font size.
- **Display size:** Drag the slider to adjust the display size.
- **Screen saver:** Set the screen saver, adjust screen saver settings, and set the time to activate the screen saver.
- **Lock screen:** Manage what will show on the lock screen.
- **Lift to wake:** Turn on the phone display by simply lifting your phone from a table or removing it from your pocket.

Accessibility

The Accessibility settings menu allows you to manage accessibility-related apps. Accessibility services are special features to make the device easier to use for those with certain physical disabilities.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Accessibility** .

Real-Time text call

From the Accessibility screen, tap **Real-Time text call**.

- **RTT call button:** Select **Always Visible** to always have access to the RTT call button.
- **RTT transcript:** Turn the transcript of history on.

Downloaded apps

From the Accessibility screen, you can view a list of downloaded accessibility apps.

Display size and text

From the Accessibility screen, tap **Display size and text**.

- **Font size:** Drag the slider to adjust the font size.
- **Display size:** Drag the slider to make the items on your screen smaller or larger.
- **Bold text:** Bold the texts displayed on your screen.
- **High contrast text:** Change text color to black or white, maximizes contrast with the background.
- **RESET SETTINGS:** Reset the display size and text preferences to the phone's original settings.

Color and motion

From the Accessibility screen, tap **Color and motion**.

- **Color correction:** Enable color correction. This may affect performance.
- **Color inversion:** Enable color inversion. This may affect performance.
- **Dark theme:** Enable dark theme mode.
- **Remove animations:** Enable or disable animations.
- **Large mouse pointer:** Enable the large mouse pointer function.

Extra dim

From the Accessibility screen, slide the Extra dim switch to the **On**  position to dim screen beyond your phone's minimal brightness.

Dark theme

From the Accessibility screen, slide the switch to the **On**  position to access dark theme mode. You can set dark theme schedule.

Magnification

From the Accessibility screen, tap **Magnification**.

- **Magnification shortcut:** Slide the switch to the **On**  position to enable magnification shortcut. Tap the magnification icon  that appears on the bottom right corner of the screen to magnify your screen.
- **Magnification type:** Choose magnification type.

Timing controls

From the Accessibility screen, tap **Timing controls**.

- **Touch & hold delay:** Set the touch & hold delay to **Short**, **Medium**, or **Long**.

- **Time to take action (Accessibility timeout):** Choose how long to show messages that ask you to take an action.
- **Autoclick (dwell timing):** Enable automatic clicking when using a mouse and adjust the amount of time between the mouse stopping and the click.

System controls

From the Accessibility screen, tap **System controls**.

- **System navigation:** Set system navigation by gestures or using Back, Home and Recent apps buttons located at the bottom of the screen.
- **Power button ends call:** Enable ending calls by pressing the **Power/Lock** key.
- **Auto-rotate screen:** Enable or disable screen rotation.

Vibration & haptics

From the Accessibility screen, tap **Vibration & haptic**.

- **Ring vibration:** Enable or disable vibration for ringing.
- **Vibrate first then ring gradually:** Enable or disable the vibration first then ringing gradually function. This option is available only when the **Ring vibration** function is enabled.
- **Notification vibration:** Enable or disable vibration for notifications.
- **Alarm vibration:** Enable or disable vibration for alarms.
- **Touch feedback:** Enable or disable vibration for touch.
- **Media vibration:** Enable or disable vibration for media.

Live Caption

From the Accessibility screen, tap **Live Caption**.

3. Live Caption detects speech on your device and automatically generates captions. Slide the **Use Live Caption** switch to the **On**  position to enable this function.

Caption preferences

1. From the Accessibility screen, tap **Caption preferences**.
2. Slide the switch to the **On**  position to show captions. You can also set caption display language, text size, and caption style.

Audio description

1. From the Accessibility screen, tap **Audio description**.
2. Slide the switch to the **On**  position to enable auto description function. You can hear a description of what's happening on screen in supported movies and shows.

Hearing aids

From the Accessibility screen, tap **Hearing aids**.

Pair a hearing aids to connect.

Audio adjustment

From the Accessibility screen, tap **Audio adjustment**.

- **Mono audio:** Enable combining channels when playing audio.
- **Audio balance:** Drag the slider left or right to adjust the audio balance from the speaker.

Accessibility shortcuts

From the Accessibility screen, tap **Accessibility shortcuts**.

- **Accessibility button:** Manage the settings on accessibility button  , such as location, size, etc.
- **Shortcut from lock screen:** Allow feature shortcut to turn on from the lock screen.

Text-to-speech output

From the Accessibility screen, tap **Text-to-speech output**.

- **Preferred engine:** Set the text-to-speech engine (Google is default). Tap  to manage text-to-speech settings.
- **Language:** Set the language for this function.
- **Speech rate:** Drag the slider to adjust speech rate.
- **Pitch:** Drag the slider to adjust pitch.
- Tap **PLAY** to play the example.
- Tap **RESET** to reset all Text-to-speech settings to the default settings.

Security

The Security settings will help you to secure your device, protect your data, and keep your privacy.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Security** .

Google Play Protect

Google will regularly check your device and prevent/warn you of potential harm. Only apps from Play Store will be checked.

From the Security screen, tap **Google Play Protect**.

- Tap **Scan** to start scanning your device for harmful apps.
- Tap **Settings**  to view Play Protect settings:
 - **Scan apps with Play Protect:** Enable regular scanning for harmful apps on your device.
 - **Improve harmful app detection:** Enable sending unknown apps to Google for better detection.

Find My Device

Find My Device helps you locate your device remotely, keeping your data safe if your phone is lost.

1. From the Security screen, tap **Find My Device**.
2. Slide the switch to the **On**  position to activate Find My Device.
 - There are several ways available to locate your device.

Security update

Check for new software updates for your device.

1. From the Security screen, tap **Security update**.
2. Tap **Check for update** to check for updates.

Google Play system update

Check if a Google Play system update is available.

1. From the Security screen, tap **Google Play system update**.
2. Follow any steps on the screen.

Screen lock

1. From the Security screen, tap **Screen lock**.
 - **None:** Disable any screen lock.
 - **Swipe:** Set swipe to unlock.
 - **Pattern:** Set an unlock pattern. Follow the prompts to finish the settings.
 - **PIN:** Set a PIN code as the screen unlock method.
 - **Password:** Set a password as the screen unlock method.

Important: To protect your phone and data from unauthorized access, it is recommended that you use the highest security level available (Password protection). It is also recommended you frequently change your password to ensure the safety of your phone and personal data. If you failed to enter the correct pattern, PIN, or password, after five attempts, you will be prompted to wait for 30 seconds before you can try again.

2. Tap  next to Screen lock to adjust some settings on screen lock.

- **Make pattern visible:** Slide the switch to the **On**  position to make the pattern visible.
- **Lock after screen timeout:** Set an automatic lock timer.
- **Power button instantly locks:** Activate instant lock with the power button.

Note: "Make pattern visible" is only available when the pattern screen lock is set.

Fingerprint

In addition to unlocking your phone, you can also use your fingerprint to authorize purchases and app access.

Add a fingerprint

1. From the Security screen, tap **Fingerprint**.
2. Enter your pattern, PIN, or password.

Note: To add a fingerprint, you must set your backup screen lock method first.

3. Tap **Next**. Put your finger on the sensor on the back of your phone and lift after you feel a vibration. Keep pressing and lifting your finger to add the different parts of your fingerprint.
4. Tap **Delete**  to delete a saved fingerprint.
5. Tap **Add fingerprint** to add another fingerprint.

Face unlock

Unlock your phone by looking at it.

Set up face authentication

1. From the Security screen, tap **Face unlock**.

2. Enter your pattern, PIN, or password.

Note: To add a face unlock, you must set your backup screen lock method first.

3. Keep your eyes open and make sure your face is fully visible and not covered by any object, such as a hat or sunglasses.

Unlock your phone with your face

To unlock your phone, press the **Power/Lock** key to light up the phone screen and trigger Face unlock automatically.

Note: Face unlock is less secure than fingerprint or password. Someone who looks like you could unlock your phone.

Smart Lock

Unlock your device automatically in certain conditions.

From the Security screen, tap **Smart Lock**.

- **On-body detection:** Activate On-body detection feature. Your device will now be kept unlocked while it is on you.
- **Trusted places:** Add a trusted location where the device can remain unlocked.
- **Trusted devices:** Add a second device that keeps your device unlocked when it is nearby.

Device admin apps

1. From the Security screen, tap **Device admin apps**.
2. Enable or disable Device admin apps according to your preference.

SIM card lock

From the Security screen, tap **SIM card lock**.

- **Lock SIM card:** Enable SIM card lock. SIM lock will require you to enter a PIN to use your device.
- **Change SIM PIN:** Change the PIN code.

Encryption & credentials

From the Security screen, tap **Encryption & credentials**.

- **Encrypt phone:** Your phone is already encrypted.
- **Trusted credentials:** View trusted security certificates.
- **User credentials:** View and modify stored credentials.
- **Install a certificate:** Install certificates from the SD card.
- **Clear credentials:** Remove all certificates.
- **Certificate management app:** View apps where the credentials can be used for authentication.

Trust agents

1. From the Security screen, tap **Trust agents**.
2. View your trusted agents. Slide the switch to the **On**  or **Off**  position to turn them on or off.

App pinning

1. From the Security screen, tap **App pinning**.
2. Slide the switch to the **On**  or **Off**  position to turn it on or off. When turned on, you can use App pinning to keep the current screen in view until you unpin.

Privacy

The Privacy settings will help you to secure your device, protect your data, and keep your privacy.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Privacy** .

Privacy dashboard

1. From the Privacy screen, tap **Privacy dashboard**.
2. Show which apps used permissions in the pass 24 hours.

Permission manager

1. From the Privacy screen, tap **Permission manager**.
2. Control permission for apps that use your camera, location, microphone, contacts, etc.

Microphone access

Allow microphone access for all apps and services.

Show passwords

Display characters briefly as you type passwords.

Notifications on lock screen

Choose to show or hide notification content on the lock screen.

Android System intelligence

Get suggestions based on the people, apps, and content you interact with.

Show clipboard access

Show a message when apps access text, images, or other content you've clipped.

Autofill service from Google

Autofill your information from your Google Account.

1. From the Privacy screen, tap **Autofill service from Google > Continue**.
2. Fill in the categories with information you would like to autofill, such as an address, payment methods, etc.

Google location history

View your location history.

Activity controls

Choose the activities and information you allow Google to save.

Ads

Control advertising ID and personalization.

Usage & diagnostics

Share data to help improve Android.

1. From the Privacy screen, tap **Usage & diagnostics**.
2. Slide the switch to the **On**  position to enable Usage & diagnostics.

Location

The Location settings will help you to secure your device, protect your data, and keep your privacy.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Location** .
3. Slide the switch to the **On**  position to turn location services on.

Recent access

View a list of apps that have recently requested your location.

App location permissions

View which apps have permission to access location services.

Location services

Emergency Location Service

Turn Emergency Location Services (ELS) on. When you call or text an emergency number, your device will use ELS to automatically send your location to emergency responders.

Google Location Accuracy

Use GPS, Wi-Fi, mobile networks, and sensors to determine your location.

Google Location History

View your location history.

Google Location Sharing

Share your real-time location from your devices with people you choose.

Wi-Fi scanning

Improve location accuracy by allowing system apps and services to detect Wi-Fi networks at any time.

Bluetooth scanning

Improve location accuracy by allowing system apps and services to detect Bluetooth devices at any time.

Safety & emergency

Fulfill your medical and emergency information, view emergency alerts, and manage settings on emergency SOS and location service.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Safety & emergency** .

Medical information

1. From the Safety & emergency screen, tap **Medical information**.
2. Add your medical information such as your name, address, blood type, allergies, etc.

Emergency contacts

1. From the Safety & emergency screen, tap **Emergency contacts**.
2. Tap **Add contact**.
3. Choose contacts as your emergency contacts to be accessed from the lock screen in case of an emergency.

Emergency SOS

1. From the Safety & emergency screen, tap **Emergency SOS**.
2. Slide the switch to the **On**  position to turn Emergency SOS function on.
3. If you have an emergency and need emergency services, press the **Power/Lock** key 5 or more times quickly.

Play alarm sound

Play a loud sound when Emergency SOS is starting.

Call emergency services

Edit your emergency number.

Emergency Location Service

Turn Emergency Location Services (ELS) on. When you call or text an emergency number, your device will use ELS to automatically send your location to emergency responders.

Wireless emergency alerts

Turn wireless emergency alerts on. You can also view emergency alert history and manage alert preferences.

Passwords & accounts

Set up and manage all of your accounts, including your Google Account and other social networking accounts, through the Accounts settings menu.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Passwords & Accounts**.

Passwords

See, change, or remove passwords you saved in your Google Account.

From the Passwords & Accounts screen, tap **Google**.

Password Manager

1. From the Passwords & Accounts screen, tap **Google > Password Manager**.
2. Tap  to manage your password settings
 - **Offer to save passwords:** Save passwords to your Google account.
 - **Auto sign-in:** Sign in to websites automatically using saved credentials.
 - **Password alerts:** Notify you when you saved passwords are found online.
 - **Export passwords:** Download a copy of your passwords for other uses.
 - **Add shortcut to your home screen:** Add Google Password Manager to your home screen for quick access.
 - **Declined sites or apps:** List out the sites and apps you've chosen not to save passwords. You can add more into the list by tapping **Add more**.

Password Checkup

Check the security of passwords saved to your Google Account.

Note: This option is available only when you have filled in passwords prior.

1. From the Passwords & Accounts screen, tap **Google > Password Checkup**.
2. Tap **Check passwords**.
3. Follow the prompts to complete checkup and change unsafe passwords if necessary.

Search passwords

Search in saved passwords.

1. From the Passwords & Accounts screen, tap **Google**.
2. Tap the search bar and enter what you want to search.
3. Tap  to search in listed passwords.

Autofill service

Autofill your information when needed from your Google Account.

1. From the Passwords & Accounts screen, tap **Autofill service**.
2. Tap  next to Autofill service.
3. Slide the **Use Autofill with Google** switch to the **On**  position to activate the autofill function.
4. Fill in the categories with information you would like to autofill, such as addresses, payment methods, etc.

Preferences

1. From the Autofill service screen, tap  next to Autofill service > **Preferences**.
 - **Security:** Enable biometrics authentication before auto filling payment cards and passwords.
 - **Sync:** Use preferences on other devices with your Google Account.

Add account

1. From the Passwords & Accounts screen, tap **Add account**.
2. Tap the type of account you want to add.
3. Follow the prompts to enter your credentials and set up the account.
 - For more information about setting up a Google Account, see [*"Google Account" on page 39*](#).

Automatically sync app data

1. From the Passwords & Accounts screen, tap **Automatically sync app data**.
2. Slide the **Automatically sync app data** switch to the **On**  position to activate automatic data syncing.

Digital Wellbeing & parental controls

Your Digital Wellbeing tools

Use app timers and other tools to keep track of screen time and unplug more easily.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **Digital Wellbeing & parental controls**  > **Show your data**.

Ways to disconnect

- **Dashboard:** View your screen time and set timers for your apps.
- **Bedtime mode:** Set a bedtime schedule to disconnect from your phone and avoid interruptions while you sleep.
- **Focus mode:** Pause distracting apps when you need time to focus.

Reduce interruptions

- **Manage notifications:** Enable or disable the notifications of apps.
- **Do Not Disturb:** Mute your device, but allow exceptions such as calls or texts from certain contacts.
- **Heads Up:** Prompt you to stop staring at your phone while walking. Follow the steps to set up Heads Up feature.

Show icon in the app list

Slide the switch to the **On**  position to enable icons in the app list.

Parental controls

Add content restrictions and set other limits to help your child balance their screen time.

1. From the Digital Wellbeing & parental controls screen, tap **Set up parental controls**.
2. Follow the screens to finish the setup.

Google

Configure your device's Google settings. Available options depend on your Google Account.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
 2. Tap **Google** .
- **COVID-19 Exposure Notifications:** Select your region and turn on Exposure Notifications to get notified if you've been exposed to someone who reports having COVID-19.
[Note: Not all regions have Exposure Notifications available.](#)
Tap **Learn more** on the middle of the screen to get more information on detailed steps to set this up and how it works.
 - **Services on this device:** Select an option to customize your Google Account settings.

System

Manage detailed settings for your phone, including language and input settings, gestures, date and time, reset options, etc.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .
2. Tap **System** .

Languages & input

Set the language for the phone's menus and keyboards, select and configure keyboard settings, configure speech input settings, and more.

Languages

1. From the System screen, tap **Language & input > Languages**.
2. View your languages.
 - When more than one language has been added, you can touch and hold the language, then drag it up to the first position to set as the default display language.
 - To add a language, tap **Add a language**, then select the language you want to add.
 - To remove a language, tap **Menu**  **> Remove**.

On-screen keyboard

View your virtual keyboard settings. Activate or deactivate your virtual keyboards.

Physical keyboard

View your physical keyboard settings.

- **Use on-screen keyboard:** Enable or disable displaying a virtual keyboard while a physical keyboard is active.
- **Keyboard shortcuts:** Tap to set keyboard shortcuts.

Spell checker

Enable or disable the spell checker.

- **Languages:** Select spell checker language.
- **Default spell checker:** Select the default spell checker app.

Personal dictionary

Add custom words to your personal dictionary. Tap **Add**  to add a word to the dictionary.

Pointer speed

Set the speed of the pointer for a mouse/track pad.

Text-to-speech output

Manage settings on the text-to-speech function.

Gestures

Manage gesture settings.

From the System screen, tap **Gestures**.

Quickly open camera

Open the Camera app from any screen by quickly pressing the **Power/Lock** key twice.

System navigation

- **Gesture navigation:** Select the checkbox to enable the following navigation gestures:
 - To go to the Home screen, swipe up from the bottom of the screen.
 - To switch apps, swipe up from the bottom, hold, then release.
 - To go back to the previous screen, swipe from either the left or right edge.Tap  to add gesture to invoke assistant and adjust gesture sensitivity.
- **3-button navigation:** Select the checkbox to enable 3-button navigation. This option is enabled by default.
 - To go to the Home screen, tap .
 - To switch apps, tap .
 - To go back to the previous screen, tap .

Press and hold power button

Press and hold the **Power/Lock** key to access Google Assistant.

Prevent ringing

Press the **Power/Lock** key and the **Volume up** key together to activate Vibrate or Mute mode.

Note: **Prevent ringing** option will be grayed out when the **Press and hold power button** function is enabled, and vice versa.

Date & time

From the System screen, tap **Date & time**.

Set time automatically

Automatically use the time and date provided by a connected Wi-Fi network or GPS. Disable this function to enter the date and time manually.

Set date

Set the date manually. This option is available only when the **Set time automatically** function is disabled.

Set time

Set the time manually. This option is available only when the **Set time automatically** function is disabled.

Automatic time zone

Automatically set the time zone. Disable this function to select the time zone manually.

Select time zone

Manually select your time zone. This option is available only when the **Automatic time zone** function is disabled.

Use location to set time zone

Use location to set the time zone.

Use locale default

Use the default time format.

Use 24-hour format

Enable or disable the 24-hour time format.

Backup

Your phone's Backup settings let you back up your phone's data and settings to Google servers before resetting your phone to the original factory settings.

1. From the System screen, tap **Backup**.
2. Slide the **Backup by Google One** switch to the **On**  or **Off**  position to enable or disable automatic backup to your Google Drive.

Backup details

You can check what data and which apps are included in your backup.

Advanced settings

- **Back up using mobile or metered Wi-Fi data:** Enable or disable backup using mobile data or Wi-Fi data.

Multiple users

You can share this device with other people by creating additional users. Each user has their own space, which they can customize with apps, wallpaper, and so on. Users can also adjust device settings like Wi-Fi that affect everyone.

From the System screen, tap **Multiple users**.

Edit your profile info

1. From the Multiple users screen, tap **You (Owner)**.
2. Enter a name.
3. Tap  to add a photo.
4. Tap **OK** to confirm.

Add a new user

From the Multiple users screen, tap **Add user** > **OK** to set up a new user.

Add a guest

From the Multiple users screen, tap **Add guest**. You can switch to guest, turn on phone calls for the guest, or remove the guest.

Switch users

1. From the Multiple users screen, tap the name of the user you want to switch to.
2. Restart the phone to switch back to the Owner/Admin profile.

Delete users

1. From the Multiple users screen, tap the user you want to delete.
2. Tap **Delete user** > **DELETE** to remove the user.
 - Other users can delete their own profiles by tapping **Menu**  > **Delete [name of user] from this device** > **DELETE**.

Note: All apps and data stored on the user's profile will also be deleted.

Add user from lock screen

Not only can you switch between profiles from the lock screen, but you can also add users directly from it.

1. From the Multiple users screen, slide the **Add users from lock screen** switch to the **On**  position to enable it.
2. From lock screen, drag the status bar down to display the quick settings panel.

3. Tap  to access the User settings screen.
4. Tap **Add guest** or **Add user** to add users.

Reset options

From the System screen, tap **Reset options**.

- **Reset Wi-Fi, mobile & Bluetooth:** Reset all network settings, including Wi-Fi, Mobile data, and Bluetooth. Tap **RESET SETTINGS** to reset.
- **Reset app preferences:** Reset all app preferences, including disabled apps, disabled app notifications, default apps, background data restrictions, etc. Tap **RESET APPS** to reset.
- **Erase downloaded SIMs:** Erase all data on your downloaded SIMs.
- **Erase all data (factory reset):** Completely erase all data from your phone's internal storage and reset the device to factory settings. Tap **Erase all data** to reset.

Note: Performing a factory reset will also erase any data on an installed SD card. Unmount the card to avoid losing any data you may have stored on it.

About phone

Access important phone information, view legal and safety information, etc.

1. From the Home screen, swipe up to access **Apps** and tap **Settings** .

2. Tap **About phone** .

- **Device name:** Tap to edit your phone's display name.
- **Phone number:** Display your phone number.
- **Legal information:** View your device's legal information, including third-party licenses, Google legal, system web view licenses, etc.
- **SIM status:** View your SIM status information, such as the Network, Phone number on SIM, Mobile network state, etc.
- **Model:** View your device model and hardware information.
- **IMEI:** View your IMEI.
- **ICCID:** View your ICCID.
- **Android version:** View your device's current Android version and other relevant information.
- **IP address:** View your IP address.
- **Wi-Fi MAC address:** View your Wi-Fi MAC address.
- **Device Wi-Fi MAC address:** View your device's fixed MAC address.
- **Bluetooth address:** View your Bluetooth address.
- **Up time:** View your up time.
- **Build number:** View your build number.
- **Custom build version:** View your Custom build version.

Software Update

Check for new software updates for your device.



Getting help

The topics in this section will cover troubleshooting tips and phone specifications.

For assistance

Troubleshooting

Check below for solutions to common problems you may experience.

Problem: The phone freezes or operations are unstable.

Solution: Restart the device. Press and hold the **Power/Lock** key and the **Volume up** key, then tap **Restart**.

Note: Data that was being edited will be erased when the device is restarted.

Problem: The device starts freezing after installing a new app.

Solution: The newly-installed app may be causing the device to freeze. Uninstall the app in Safe mode. To enable Safe mode:

- Press and hold the **Power/Lock** key and the **Volume up** key, then touch and hold **Power off**. Read the disclaimer for Safe mode, and then tap **OK**.
 - After turning the phone on in Safe mode, "Safe mode" will appear at the bottom left corner.
 - After restarting in Safe mode, your phone can be powered on as usual.
 - Before enabling Safe mode, it is recommended that you back up important data.
- To exit Safe mode, restart the device. Press and hold the **Power/Lock** key and the **Volume up** key, then tap **Restart**. The phone will reboot in normal mode.