

UNIT 7: Components of a cell phone

GET READY!

Discuss the questions with your partner.

1. What parts do you think a smartphone has inside? Write at least 5 components.

- _____
- _____
- _____
- _____
- _____

2. Which of these components are responsible for:

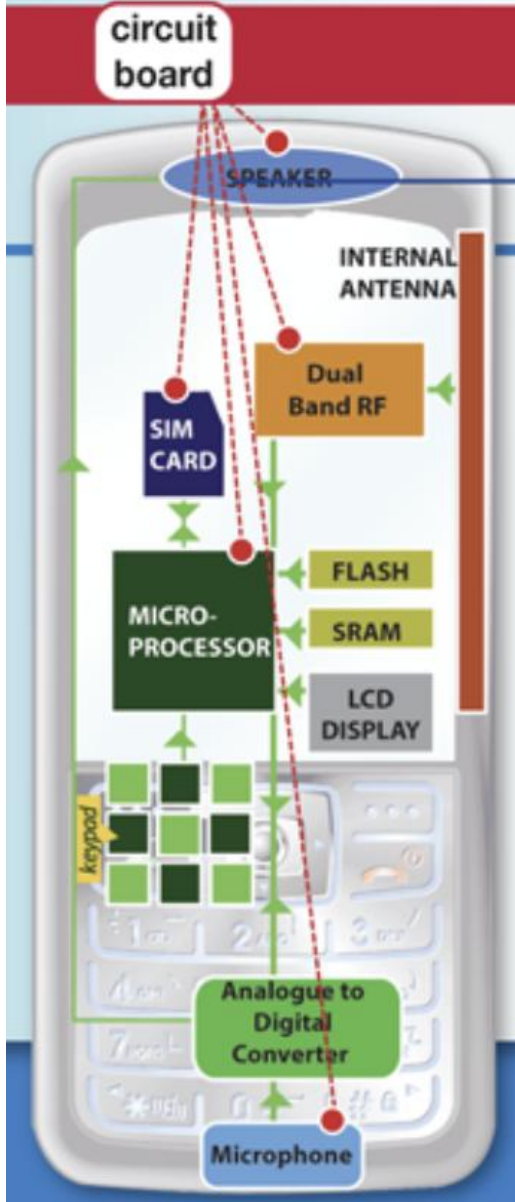
- **sound** _____
- **communication (calls, internet)** _____
- **storage** _____

3. What do you think is the “brain” of a mobile phone? Why? Write a short answer.

READING

Read the text and answer the questions.

CELLULAR TECHNOLOGY: Inside a cell phone



Cell phones are small but powerful devices. The internal and external operations are enabled by the phone's components.

Internally, the **circuit board** is home to the essential electronic mechanisms. This includes a **digital signal processor**. This very fast **microprocessor** commands and controls the phone.

It **coordinates** the functions of all the other components. For example, it connects a **conversion chip** with the **microphone** or **speaker**. Then, the conversion chip converts analog and digital audio signals. After that, **RF amplifiers** control the transmission of these signals.

In another section of the circuit board, the **internal clock chip** maintains time.

Finally, the results of those functions are displayed on the phone's screen. Screens differ in size and appearance, but most use **LCD**. The overall appearance and operation is very similar to a computer. Most models are even compatible with **Flash** memory for electronic storage.

Like computers, cell phones are complex devices.

They just have smaller parts.

1. Read the text and decide if the statements are TRUE or FALSE. Correct the false ones.

1) The circuit board is an external component.

Correction: _____

2) A microprocessor connects a conversion chip to a microphone.

Correction: _____

3) Most phones use LCD for electronic storage.

Correction: _____

VOCABULARY

2. **At home. Watch the [video](#) available on Moodle (Unit 7). While watching, compare the video with the diagram “Inside a Cell Phone” from class.**

1) **List at least 3 components that appear in the video but NOT in the diagram.**

2) **Identify 1 element that is outdated in the diagram and correct it.**

Outdated: _____

Correction: _____

3) **Explain the function of one of the new components.**

Name of the component: _____

It is used to _____

3. **Match the words or phrases with the definitions (A–E).**

conversion chip · digital signal processor · RF amplifier · coordinate · LCD

- 1) a type of display technology for a cell phone:
- 2) a component that uses radio frequencies to transmit signals
- 3) a component that changes outgoing and incoming audio signals
- 4) a microprocessor that operates at a high speed
- 5) to make multiple things work together

4. **Components and functions. Complete the sentences using the correct verbs:**

coordinate/ coordinates - maintain/ mantains - convert/ converts – control/ controls.

- 1) The microprocessor _____ the phone.
- 2) The conversion chip _____ audio signals.
- 3) RF amplifiers _____ signal transmission.
- 4) The internal clock chip _____ time.
- 5) The system _____ all components.

5. Read the sentence pairs. Choose which word.

1) microprocessor · Flash memory

- The _____ directs the operations of the phone.
- Phones store user data in _____.

2) speaker · circuit board

- The overall operation of a cell phone relies on the _____.
- The user couldn't hear the audio because of a faulty _____.

3) internal clock chip · microphone

- The _____ captures very clear sound.
- The _____ ensures that the device displays the correct time.

6. Add one modern component that is NOT in the text. Try to use verbs from task 4.

This component is called _____.

It is used to _____.

It helps the phone to _____.

SPEAKING – Reporting to the assistant.

Explain to Robby what you did in the previous session. Try to use the vocabulary seen in class.

Useful language
<i>In the previous session, we studied ...</i>
<i>We learned about components such as ...</i>
<i>This component is used to ...</i>
<i>One important function is...</i>
<i>One new thing we discovered is ...</i>

Be ready to answer questions.