

Identifying sections of a non-fiction page

Page title

Smartphone [Power at your fingertips]

A smartphone is a small computer in the form of a mobile phone. Able to handle phone calls, texts, and emails, smartphones go way beyond the basics with programs called apps (see page 23), which enable users to perform hundreds of different tasks.

225 million
the number of touchscreens is built to

What's inside?

A smartphone contains a computing system on a microprocessor, memory, and devices to handle its graphics, sounds, and display. A program called an operating system – such as Android, Symbian, or Apple iOS – controls the phone's operation.

Touchscreen technology

Some smartphones include a small physical keyboard, but most have a touchscreen. This displays icons and scroll bars. Users touch or swipe these to enter information and commands.

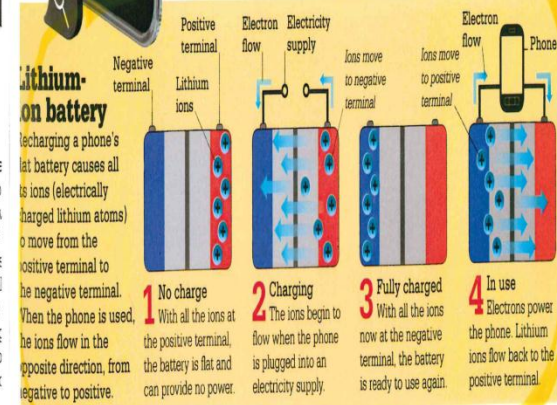
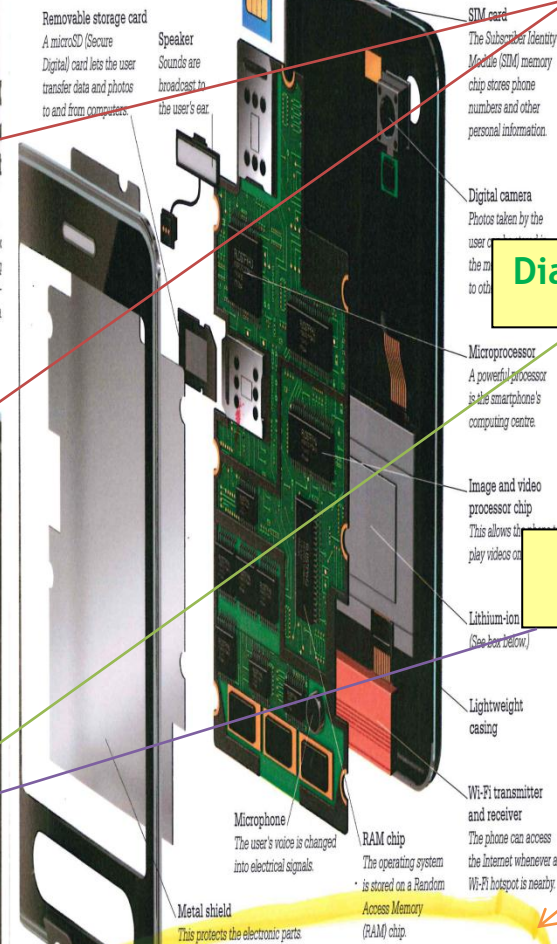
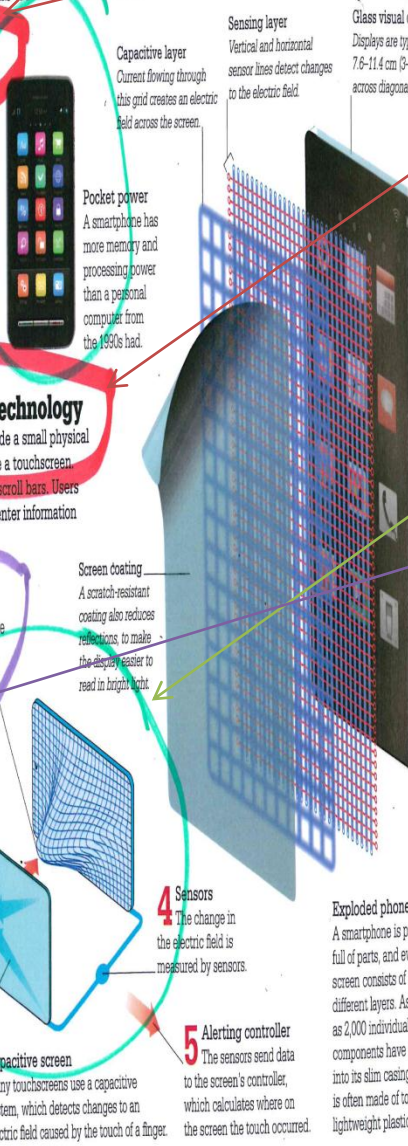
1 Screen charge
A small electric charge is applied to the screen from all four corners.

2 Finger touch
When the user touches the screen, charge transfers to the finger.

3 Disturbed field
The transfer of charge disturbs the electric field on the capacitive layer.

4 Sensors
The change in the electric field is measured by sensors.

5 Alerting controller
The sensors send data to the screen's controller, which calculates where on the screen the touch occurred.



20/21
MICROCHIPS & SMART TECH
Sub-headings

Diagrams or pictures

Captions

Special extra information