

Radio waves

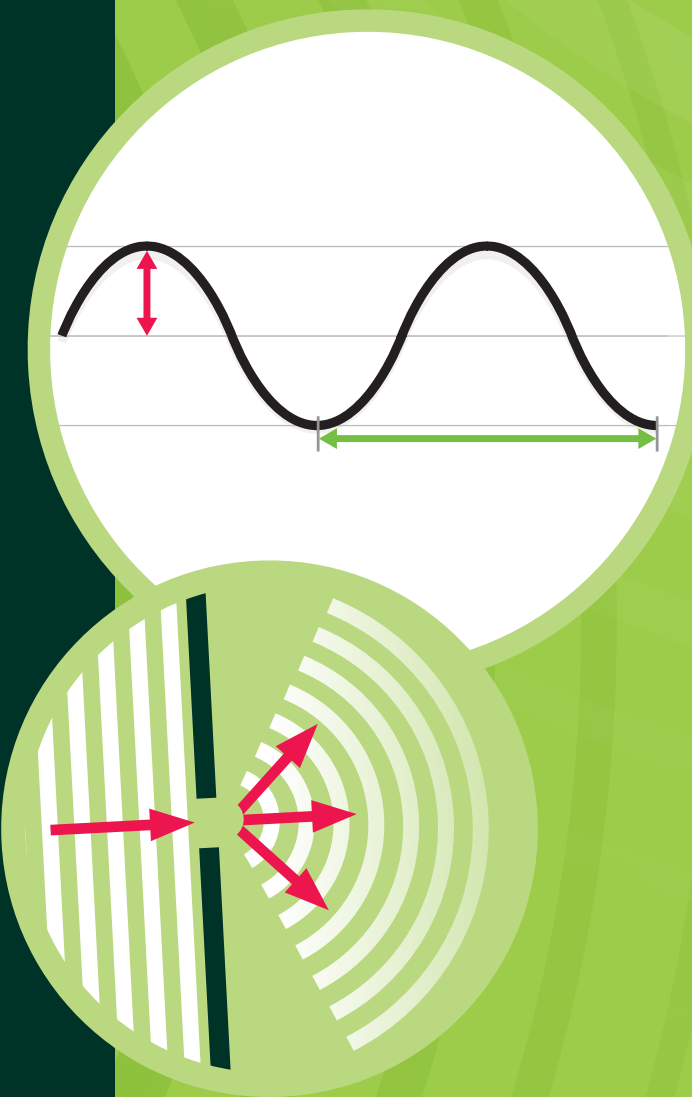
Connecting the wireless world



Mobile phones

use radio waves to connect with their network.

- Radio waves are a type of electromagnetic radiation.
- Just like ripples in water, radio waves bend (**diffract**) around objects.



Antennas

are used to send and receive radio waves.

These are a type of electromagnetic radiation and are used to:

- connect our mobile phones
- receive pictures on our TVs

Antenna design is a big engineering challenge - antennas range from:

- a 100m radio telescope to...
- a metal pattern on a tiny circuit board in your phone