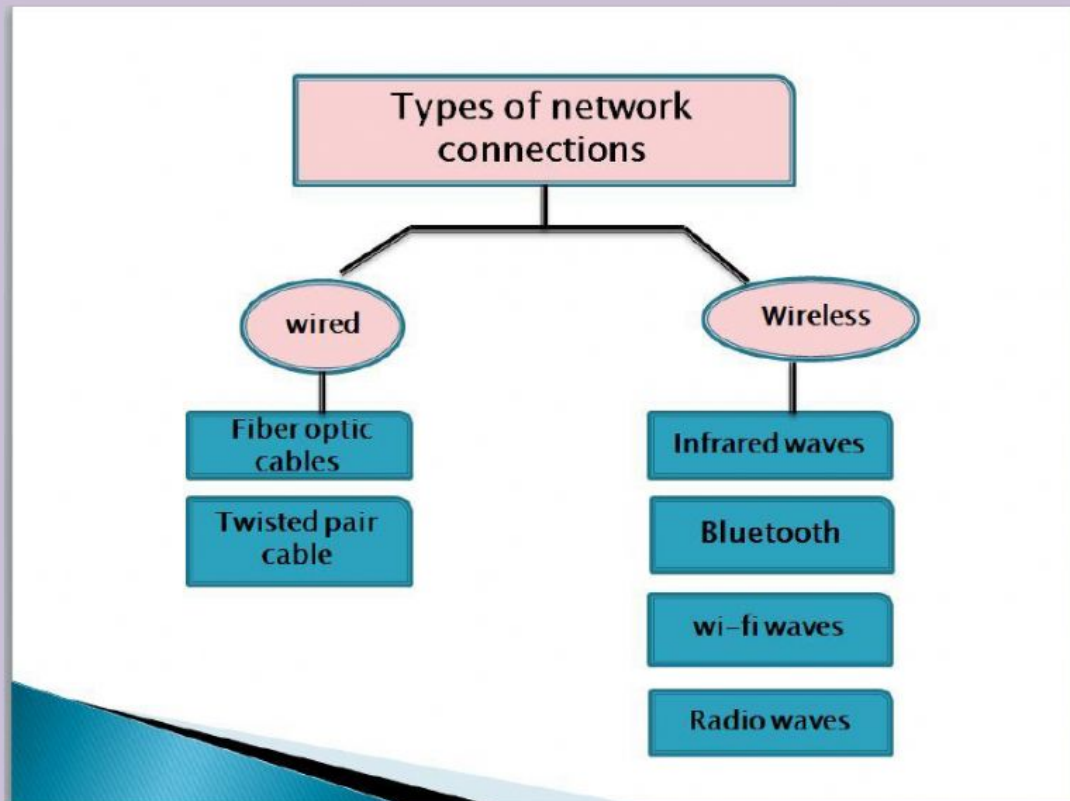# 5 Computer Networking

Grade 9

What is computer networking?

Two or more computers that are connected with one another for the purpose of communicating data electronically.
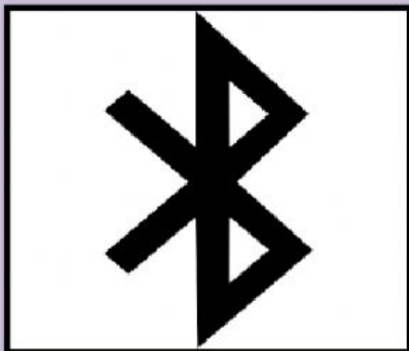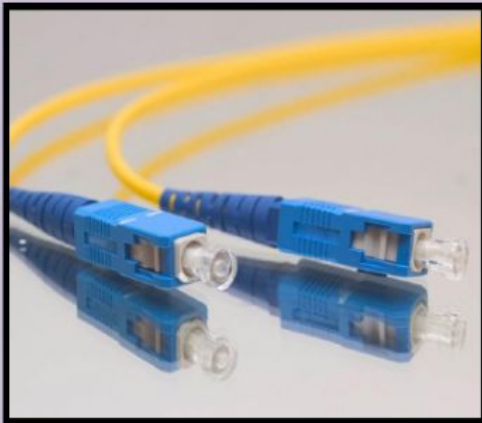
Advantages of computer networking

Advantages of networking:
- Ability to communicate with network users, using e-mail, short messaging services, etc.
- Common use of documents, images, photos, songs, video, etc.
- Sharing software such as computer games
- Facility to save important information in a network storage device
- Ease of taking back ups since the data files are saved in a server computer in the network
- Ability to share software and hardware
- Ability to access the Internet

Types of network connections

Types of network connections

wired — Wireless

wired:
- Fiber optic cables
- Twisted pair cable

Wireless:
- Infrared waves
- Bluetooth
- wi-fi waves
- Radio waves
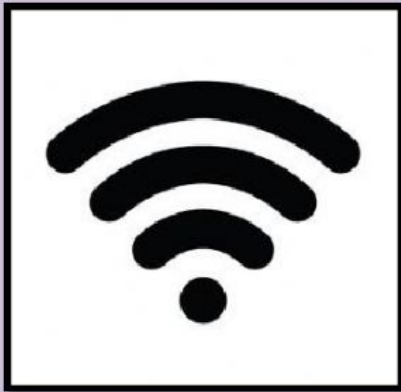
Activity

- With the help of 68 of the your text book, drag and drop from the answers given below and name ahead.

               [   ]

               [   ]

               [   ]

[_____]

[_____]

[_____]

Fiber optic cables   Infrared waves   Radio waves

Twisted pair cables   Bluetooth   Wi-Fi waves

Basic devices of a Network

- ✓ Server
- ✓ Switch
- ✓ Network interface card(NIC)
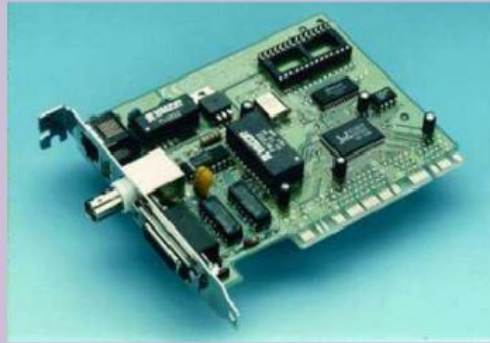- ✓ RJ45 cable

Server

The server manages the software, the hardware, the files and communication in the network. Any ordinary computer with the necessary software installed can be used as a server.

Switch

The switch acts as the mediator between two or more computers. The switch recognizes the destination computer or the device when messages are sent from one computer to another in the network.
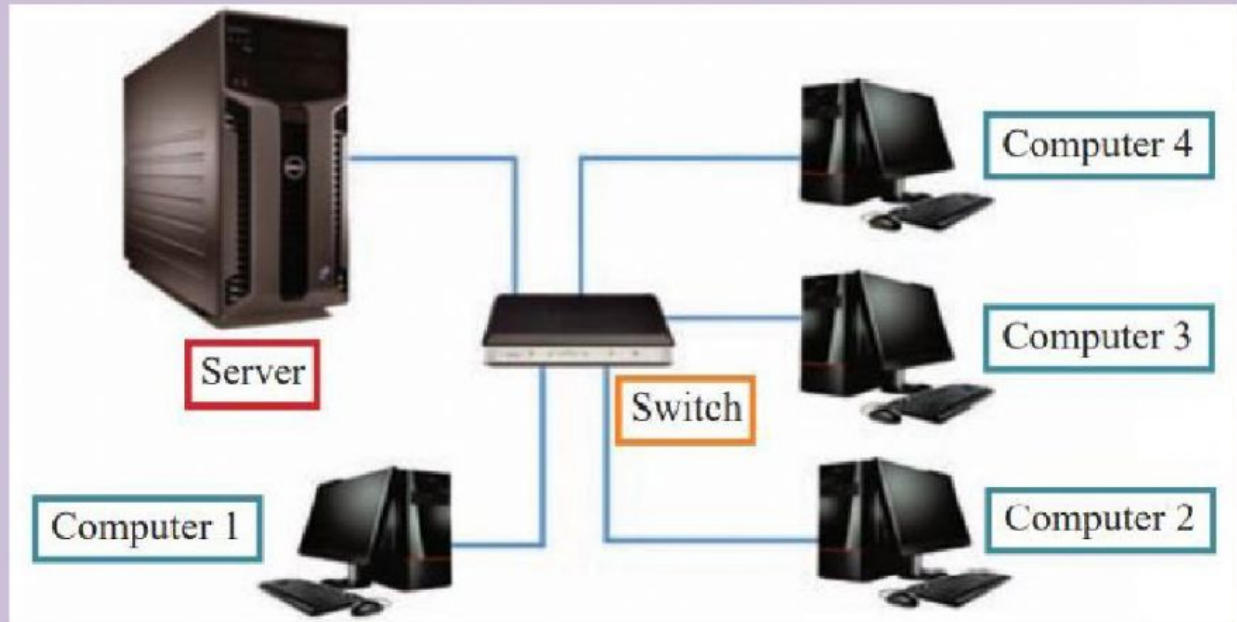
Network interface card(NIC)

Network Interface Card connects a computer to a computer network

RJ45 cable

RJ45 connector cable

An example of a computer network

Activity - select the correct answer

1. What is a computer network

  a) Manage software, software, files, and messages on a   network
  b) Connecting two or more computers to each other
  c) Connecting with the Internet
  d) Is the central processing unit in the computer

2.What is not an advantage of computer networking

    a) Not a ability to access the Internet
    b) Ability to share software and hardware
    c) Common use of documents, images, photos, songs, video, etc.
    d) Facility to save important information in a network storage device

3. The methods used to connect computer networks are

    a) Impact / Non –impact
    b) Primary / secondary
    c) LAN/MAN
    d) Wired/ Wireless

4. Acts as a mediator to build a connection between two or more computers,

    a) Server
    b) Switch
    c) RJ45 cable
    d) Network interface card (NIC)

5. This is the method of using infrared waves

    a) Wired
    b) Impact
    c) Online
    d) wireless