

# الفائز

## في الكمبيوتر

وتكنولوجيا المعلومات و الإتصالات

الصف الأول الإعدادي

فصل دراسي ثاني

## First lesson The Basic Concepts of Internet

At the end of this lesson the student should be able to:-

- Know the definition of the internet.
- Recognize the terms of using the internet.
- Conclude the Basic components of Internet requirements.
- Clarify the definition of web page.
- Know the components of web page address.
- Differentiate between the definitions of upload and download.

### Internet

Dear student you have knew before the types of networks ( LAN – WAN) and the required area that cover every network to the user and how to use it and its importance for sharing data and information's between colleagues and we will know the internet network and its services.

### Activity

Dear student with your teacher's help and with your colleagues' cooperation search for internet network definition.



### Internet is: -

Network consist of group of networks connected with each other and every network consist of group of computers and lines of connection and equipment, which lead to organize connection operation in addition to software needed for connection operation.

### Requirements for internet connection

Dear student if you want to connect with the internet you will need the items: -

1. Computer (have network card)
2. Internet service provider (ISP):- which means company provides the service to their users
3. Web browser, which a program.

One of the most important web browser programs:  
Google Chrome, Internet Explorer, Fire fox



### Some concepts and definitions

#### Protocol: -

Dear student interaction with your colleagues in the class must build on understanding and you should agree to use specific rules in your conversation, and also the computers through internet network need to determine rules for connection and that what means protocol.

Protocol is sending and receiving data through internet network, and every protocol is doing a specific function according to his type.

#### The most known protocols used in internet: -

##### 1. Protocol TCP/IP

Used in connecting different computers with the internet and consists of 2 protocols considered from the most important protocols used in the internet and they are:

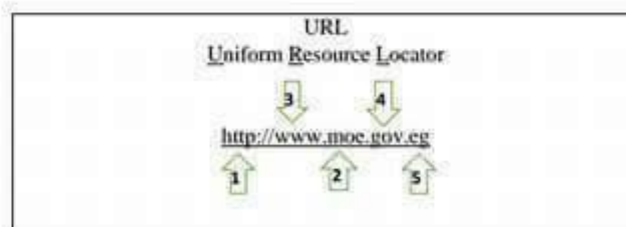
- Protocol TCP (Transmission Control Protocol) which is responsible to make sure from connecting the data from computer to other one.
- Protocol IP (Internet Protocol) responsible for coping the data from computer to other one.

2. Protocol FTP (File Transfer Protocol) responsible for exchange the file from internet to it.

#### Web Site: -

Is a web page or more linked with each other under a specific name storage has an address on the internet network (URL) Uniform Resource Locator named with the site address and you can visit this site from computer or mobile phone through internet network.

And the address of Internet site consists of the following: -



**Components of the previous site are: -**

1. **Http:** determine the type of protocol.
2. **moe:** determine the name of web server – the name of computer that storage the data.
3. **www:** World Wide Web.
4. **gov:** determine the organization and the type of the service.
5. **eg:** determine the country.

**Web page: -**

It's an electronic document shared on the internet network and exposed through one of the browser of internet.

**Home page: -**

It's the first page in the web site and you can transport from it to any other web page.

**Activity**

The ministry of education allows the teachers, the parents and the student to visit its web site on internet to know the educational services from lessons and books, and also to facilitate contacting them.

Dear student with your teacher's help and with your colleagues' cooperation discuss the components of URL of the ministry site as below.

**<http://www.moe.gov.eg>**

.....  
.....

**Hyperlink: -**

The hyperlink is a photo or text linked with an address and by pressing on it,

Will transport to this address, or another page inside the same site or another site.

**Download: -**

It's an operation to copy and paste files or programs through internet to your own computer (you can run this program without internet).

**Upload: -**

Copy file or program from your own computer to any computer connected to the internet.



## Activity

Dear student with your teacher's help and with your colleagues' cooperation discuss how to download peace republican file from any web site.

.....  
.....

## Reminder

### Internet: -

Network consist of group of networks connected with each other and every network consist of group of computers and lines of connection and equipment, which lead to organize connection operation in addition to software needed for connection operation.

### Protocol: -

Is sending and receiving data through internet network, and every protocol is doing a specific function according to his type.

### Web Site: -

Is a web page or more linked with each other under a specific name storage has an address on the internet network (URL) Uniform Resource Locator named with the site address and you can visit this site from computer or mobile phone through internet network.

### Hyperlink: -

A photo or text linked with an address and by pressing on it,

Will transport to this address, or another page inside the same site or another site.

### Download: -

It's an operation to copy and paste files or programs through internet to your own computer (you can run this program without internet).

### Upload: -

Copy file or program from your own computer to any computer connected to the internet.

Questions & Exercises

**First Question: complete the following: -**

- Internet is

.....  
.....

- The needs from connecting to the internet

.....  
.....

- Hyperlink is

.....  
.....

**Second question: what is the meaning of: -**

- Internet Service Provider (ISP)

.....  
.....

- Protocol

.....  
.....

- Website

.....  
.....

Preparatory Question to the next lesson:

From internet you can use many of its services

So what are the internet services?



## Second Lesson Some Internet Services

### Goals

At the end of this lesson the student should be able to: -

- List some of internet services.
- Use internet services, its applications and communication programs to benefit from it in different fields.
- Share and exchange files through technology communication tool (E-mail address).
- Discuss the effect of using new information technology services on different life and educational fields.

## The internet services

The internet provides its users with many services:

-Searching on internet service:

- Searching sites on internet network considered from the most popular sites that millions of users benefit from it to reach the web sites address that have the information that they need.
- The sites save searching tools that is the best and faster way to reach the information that the users need and also they can search for web sites, texts, photos, groups, news, books..... etc.

-Google search:

Considered as the most popular searching tool on internet network, the site has millions of web site addresses on internet network that covers all the topics.



[www.google.com](http://www.google.com)

- Bing search tool:

And its address [www.bing.com](http://www.bing.com)



## Activity

Dear student with your teacher help and colleague's cooperative search for solar groups, by using google search tool. Write in the searching column in google searching tool the sentence that you want to search which is the solar groups.



• Press on search, you will find searching results as the following:



- Press on one of the searching results;
- Write your notes.

### - Mailing List:

It is a list of email addresses used to send any message to a group of people, and to every list a private address and you have to know that every message send to the list will be send automatically to all the users in this list.



**- File Transfer Protocol (FTP):**

Service provides the internet to copy files through it, which allows the users to exchange files easily through internet network.

**- News group:**

Places on internet where the people meet to exchange views and thoughts, each group have specific topic as (mathematics, geography, science ..... etc.)

*REG.PETS.GATS.COMMUNITY*

**- Chat:**

Program through internet add users all over the world to talk with each other in the same time, also can see photo and hear the other user's voice.

**- Social media service (Facebook & twitter):**

It's for exchanging social news between community members, and they are sites where the users subscribe to exchange views and thoughts.



**- Electronic commerce service:**

Service provides it some internet sites for buying and purchasing through internet.

**- E-mail service:**

Dear student if you want to send your colleague a file that contains explanation for a lesson, so what shall you do? Through connecting to the internet and by using E-mail that allows you to send this file to your colleague immediately, it's a service to exchange emails that have texts, photos, videos... etc.

**-Web service WWW:**

It's shortcut to World Wide Web and it's a tool to reach information and its pages written with a language named HTML and exposed with a program called browser.



Egyptian Knowledge Bank

**Activity**

Dear student with your teacher's help and your colleague's cooperation do the following:

- Download knowledge bank site <http://www.ekb.eg>
- Search inside the site how to log in? And the aim from the site - The idea and inspiration.
- Sign in the site from entering "sign up".



- Electronic application will appears to sign up to knowledge bank site:

**BASIC INFORMATION**

First Name <input type="text"/>	Last Name <input type="text"/>
Email <input type="text"/>	Mobile Number <input type="text"/>
Confirm Email <input type="text"/>	
BirthDate <input type="text"/>	National ID <input type="text"/>


---

**PROFESSIONAL AFFILIATION**

School Student <input type="radio"/>	
City <input type="text"/>	Area <input type="text"/>
School Name <input type="text"/>	Grade <input type="text"/>
University Student <input type="radio"/>	
University/Institute <input type="text"/>	Faculty <input type="text"/>
Department <input type="text"/>	Major <input type="text"/>
School Educator <input type="radio"/>	
Educational Administration <input type="text"/>	Area <input type="text"/>

**The teacher should fill the data needed to sign up:**

**- After finishing the steps of signing up, a window will appear to make new account:**



**REGISTRATION**

## Your request done successfully

Thank you for registering to use the Egyptian Knowledge Bank. An email has been sent to you confirming your registration.

Note : If you didn't find the message in your email inbox, please check "Junk" or "Spam".


Kindly note that if you didn't activate your account within 72 hours from the registration date it will be terminated automatically.

[START YOUR JOURNEY](#)

**Important tip:**


Dear student after signing up the knowledge bank and registering your e-mail address in the registration data you will receive password on electronic message to the e-mail that have been registered in the registration data.

- For more information click sources – children portal.




MeBooks lets you and your little ones create personal editions of some of the most popular picture books and comics ever published.

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- Search for Respiratory system:



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Discovery | WebEdTV

Science, Technology, Engineering and Maths (STEM) programmes for preparatory

Egyptian Knowledge Bank  
بنك المعرفة المصري

- You will find the below results:



**Introducing the Respiratory System**  
Describes the functions and characteristics of the human respiratory system. Explains the process of breathing, which provides oxygen to cells in the body. The respiratory system involves lungs, trachea, bronchial tubes, and passageways in the nose and mouth. It is controlled by the muscle of the diaphragm which allows the ribs and lungs to expand and contract during inhalations and exhalations. The program also describes other parts of the body involved in respiration.  
Type: Video Segment  
Grades: 3, 4, 5, 6, 7, 8  
© 2018

**The Structure of the Respiratory System**  
Discover one incredible multi-tasking organ.  
Type: Video Segment  
Duration: 6:10  
Grades: K, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12  
© 2001

**Real World Science: Respiratory and Circulatory Systems**  
Investigates the circulatory and respiratory systems of the human body. The program discusses the organs that make up these systems and their functions, which involve refreshing the oxygen in the blood and transporting it throughout the body. Parts of the respiratory system including lungs, trachea, bronchial tubes, and others are discussed. The circulatory system is divided into the components of blood, the heart, and blood vessels. The program describes how these components work together to transport blood throughout the body. Beginning with the respiratory system, students learn about the complex internal processes involved in the process of breathing, and then the process of transporting oxygen through the body.

-Choose one of the searching results:



**Introducing the Respiratory System**

Introducing the Respiratory System

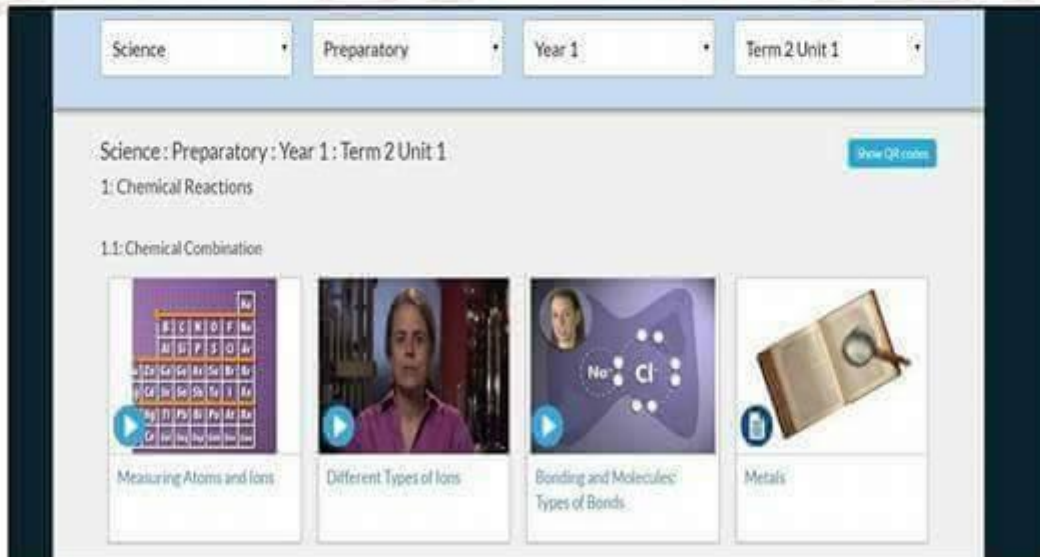
Describes the functions and characteristics of the human respiratory system. Explains the process of breathing, which provides oxygen to cells in the body. The respiratory system involves lungs, trachea, bronchial tubes, and passageways in the nose and mouth. It is controlled by the muscle of the diaphragm which allows the ribs and lungs to expand and contract during inhalations and exhalations. The program also describes other parts of the body involved in respiration.

Tags

## Activity

Dear student with your teacher's help and with your colleagues' cooperation, from the Curriculum Connect of Science search for the topic of chemical reactions – chemical combination.

جروب سنة اولى اعدادى







Science • Preparatory • Year 1 • Term 2 Unit 1

Science: Preparatory: Year 1: Term 2 Unit 1 [Show QR codes](#)

1: Chemical Reactions

1.1: Chemical Combination

 Measuring Atoms and Ions	 Different Types of Ions	 Bonding and Molecules' Types of Bonds	 Metals
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## Reminder

### - Searching on internet service:

To help users to reach web sites addresses that have the information they need.

### - Mailing List:

It is a list of email addresses used to send any message to a group of people, and to every list a private address and you have to know that every message send to the list will be send automatically to all the users in this list.

### - File Transfer Protocol (FTP):

Service provides it the internet to copy files through it, which allows the users to exchange files easily through internet network.

### - News group:

Places on internet where the people meet to exchange views and thoughts, each group have specific topic as (mathematics, geography, science ..... etc.)

### - Chat:

Program through internet add users all over the world to talk with each other in the same time, also can see photo and hear the other user voice.

### - Social media service (Facebook & twitter):

It's for exchanging social news between community members, and they are sites where the users subscribe to exchange views and thoughts.

### - Electronic commerce service:

Service provides it some internet sites for buying and purchasing through internet.

### - E-mail service:

It's a service to exchange emails that have texts, photos, videos....etc.

### - Web service WWW:

Its shortcut to World Wide Web and it's a tool to reach information's.

## Questions & Exercises

### First Question: complete the following: -

1. Considered..... From the most popular searching tool on internet network.
2. Emailing list service is .....
3. From internet services: .....
4. Considered the service.....is buying and purchasing service through internet.
5. Egyptian Knowledge Bank web site address is .....

### Second question: what is the meaning of: -

1. File Transfer Protocol (FTP):  
.....  
.....

2. World wide web (www):  
.....  
.....

### Third question: choose the correct one from the below sentences: -

1. Service.....are places on internet where the people meet to exchange views and thoughts, each group have specific topic.

(Chat – news group – emailing list – file transfer).

2. Site.....is one of the social media sites.

(Firefox – Dial up – Twitter – all of them).

3. Service.....allow to send file to your colleague immediately.

(Search tool – e-mail – web – all of them).

### **Preparatory question to the next lesson:**

**There is a technique called cloud computing.**

**Search about the meaning of this technique?**



## The Internet Concepts

### *The Internet Definition*

A network consists of a group of networks linked with each other and each network consists of a set of computers, communication lines and equipment. through it organizing the communication process as well as the software needed for the communication process.

### *Internet connection requirements*

- 1) Computer connected by a network card.
- 2) Internet service providers ( ISP ) : Is a company that provides Internet access
- 3) Browser : Is a program that allows you to browse Web pages and interact such as „Internet explorer ,, Google Chrome ,, FireFox



### *Protocol Definition:*

*Protocol means Rules.*

*Computers need protocols to communicate. All computers on the Internet communicate with each other using the communication protocols. Protocols send and receive data over the Internet, and each protocol has specific functionality according to its type.*

### *The following are the famous protocols used in the Internet:*

- 1) ***The TCP/IP protocol:*** Refer to the two most important protocols in Internet.
  - ***TCP*** (Transmission Control Protocol): Is responsible for verifying the correct delivery of data from a computer to another.
  - ***IP*** (Internet Protocol):Is responsible for transferring data between computers.
- 2) ***FTP (File Transfer Protocol):*** Is simply a way of transferring files to and from the Internet.

### *Web Site definition :*

The Web site is a Web page or more connected with each other under a certain name and stored on a Web Server,, and Web site has an Internet address Uniform Resource is called a URL (Uniform Resource Locator), you can visit this site through your computer or mobile phone via the Internet Locator.

**Web site elements**

- 1) **Http** : Hyper Text Transfer Protocol
- 2) **Moe** : Name of server - Name of computer where the file is stored
- 3) **WWW**: World Wide Web
- 4) **Gov**: Specify the organization
- 5) **Eg**: Specify the country

**Web Page Definition**

It is a document contain a content published on the Internet and is displayed through the Internet browser program.

**Home page**

The main page of a web site, through it you can navigate to other pages

**Hyperlink: الارتباط التشعبي**

A hyperlink is a part of the text (or graphic) on a web page, when that part is clicked it enables:

- Taking you to a different part of the same page.
- Taking you to a different within the website.
- Taking you to a page in a different web site.

**Download :**

To move or copy files or programs from internet to your computer (and you can run this programs without internet ).

**Upload :**

transfer a file or program from your computer to one of the central computers on the Internet.