

# Networks

<b>Name:</b>		<b>Class:</b>	
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***Complete the brochure or report that you started in the lesson. Use the checklist to ensure you have included all the criteria.***

<b><i>Criteria</i></b>	
<ul style="list-style-type: none"><li>• Explain what a network is and the advantages and disadvantages of using a network.</li></ul>	
<ul style="list-style-type: none"><li>• Describe the difference between a LAN and a WAN.</li></ul>	
<ul style="list-style-type: none"><li>• Draw a diagram to represent each topology.</li></ul>	
<ul style="list-style-type: none"><li>• Outline the advantages and disadvantages of each topology.</li></ul>	
<ul style="list-style-type: none"><li>• You can use the internet to help you with your research but make sure you write the text in your own words.</li></ul>	

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**Task 1:** Name and describe the purpose of the following pieces of hardware needed in networks.

			
<b>Name</b>			
<b>What does it do?</b>			



**Extension Activity:** Describe 3 advantages and 2 disadvantages of a peer-to-peer network and a client-server network.

	Peer-to-Peer Network	Client-Server Network
<b>Advantage 1</b>		
<b>Advantage 2</b>		
<b>Advantage 3</b>		
<b>Disadvantage 1</b>		
<b>Disadvantage 2</b>		

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**Task 1:** Answer the following questions:

Question	Your Answer
1. What is an IP address used for?	
2. What is a MAC address used for?	
3. How does an internet browser find the correct website when you type in a Unique Resource Locator (URL), for instance www.bbc.co.uk?	
4. What information is included in a packet of data?	
5. What is the name given to the set of rules that computers use to allow them to communicate with each other?	



**Extension Activity:** Perform some research into TCP/IP and send an email to your teacher to explain how TCP/IP works. Make sure this is written in your own words and is not copied from another source.

## Create an HTML web page

Use Notebook to create a simple webpage by following the instructions below and save the file as "yourname.html", then view the file in a web browser to make sure it works. Email this file, along with any images you include in your website, to your teacher for marking.

### Start with a title

Every HTML document needs a title. Here is what you need to type:

```
<title>My first HTML document</title>
```

Change the text from "My first HTML document" to suit your own needs. To try this out, type the above into a text editor and save the file as "test.html".

### Add headings and paragraphs

In HTML there are six levels of headings. H1 is the most important, H2 is slightly less important, and so on down to H6, the least important. Here is how to add an important heading:

```
<h1>An important heading</h1>
```

and here is a slightly less important heading:

```
<h2>A slightly less important heading</h2>
```

Each paragraph you write should start with a <p> tag. The </p> is optional, unlike the end tags for elements like headings. For example:

```
<p>This is the first paragraph.</p>
```

### Adding a bit of emphasis

You can emphasise one or more words with the <em> tag, for instance:

```
This is a really <em>interesting</em> topic!
```

### Adding interest to your pages with images

Images can be used to make your Web pages distinctive and greatly help to get your message across. The simple way to add an image is using the <img> tag. Let's assume you have an image file called "school.jpg" in the same folder as your HTML file. It is 200 pixels wide by 150 pixels high.

```


```

### Adding links to other pages

What makes the Web so effective is the ability to define links from one page to another, and to follow links at the click of a button. A single click can take you right across the world!

To link to a page on another Web site you need to give the full Web address (commonly called a URL), for instance to link to www.bbc.org you need to write:

```
<a href="http://www.bbc.org/">Click on the link</a>.
```



**Extension Activity:** Write a more advanced webpage including the following:

1. Images which link to other web pages
2. Email links
3. More than one webpage which are linked together

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**Task 1:** Answer the following questions.

Question	Your Answer
Why is it important to have a user ID and password?	
What is meant by encryption?	
Describe the need for the acceptable use policy and what would you expect to be in that policy?	
Describe the need for the back-up policy and what would you expect to be in that policy?	



**Extension Activity:** Answer the two following questions.

Question	Your Answer
Suggest three ways a user can keep their password secure:	
Describe the need for the disaster recovery policy and what would you expect to be in that policy?	