

# Integrated ICT Learning Unit

## The Ebola Virus

<p><b>Ebola Virus</b> John Freed</p>	<p><b>What is Ebola?</b></p> <p>Ebola is an extended family virus called <i>Filoviridae</i> and it is a "hemorrhagic fever virus", meaning that it causes fluid to leak from the blood vessels, causing a major drop in blood pressure. The Ebola virus has a filament-like structure, which means it gives more surface area, allowing it to attack a larger amount of cells.</p>
<p><b>How does Ebola spread?</b></p> <p>The virus can spread through an infected person's:</p> <ol style="list-style-type: none"> <li>1. Vomit</li> <li>2. Blood</li> <li>3. Other fluids contact another person's mouth, eyes or openings on the skin</li> <li>4. Even after a person has died, don't kiss, wash or touch the corpse.</li> </ol>	<p><b>Preventing Infection</b></p> <ul style="list-style-type: none"> <li>• Avoid direct contact with an infected person</li> <li>• Wash hands regularly with soap and water</li> <li>• Bush meat – from the wild, needs to be handled appropriately – wear protective clothing and thoroughly cook the meat before eating it.</li> <li>• If you are working with a infected deceased person – wear gloves, masks, gowns and goggles.</li> <li>• Disinfect surface areas with alcohol-based, detergents or bleach.</li> <li>• Ebola virus can be eliminated with heat (60°C for 30-60 min)</li> </ul>

## STRUCTURE OF LESSON THE EBOLA VIRUS

INTEGRATED LESSON
<b>Prior Learning Requirements</b>
<b>ICT Skills:</b> Using basic tools of a presentation programme
<b>Tech Talk</b>
<b>WAV</b> A sound format (pronounced as “wave”) to produce sounds on a computer. A WAV is a sound file which is similar to MP3 but is known to have a better quality.
<b>Integrated Activity</b>
Create a presentation about the Ebola Virus, how to prevent it and how it is spread.
<b>Resources Used</b>
<b>Software:</b> Microsoft PowerPoint <b>Prerequisite:</b> Website Linx <b>Template:</b> None <b>WWW:</b> Various
<b>e-learner Skills</b>
<ul style="list-style-type: none"> <li>• Unit 2 Files and Folders</li> <li>• Unit 6 Presentations</li> <li>• Unit 7 Web Browsing and Email</li> </ul>

<b>Name:</b>	<b>Class:</b>	
<b>Integrated Activity: Create a presentation about the Ebola Virus, how to prevent it and how it is spread.</b>		
<b>Theme/Topic: The Ebola Virus</b>	<b>Integrated Activity</b>	
<b>e-Learner Skills</b>	<b>Practice</b>	<b>Assess</b>
<b>Unit 6 – Presentations</b>	✓	✓
6.1 Open programme		
6.2.1 Start new presentation		
6.2.3 View slide show		
6.3.1 Insert new slide		
6.3.2 Slide Layout designs / Backgrounds		
6.4.1 Insert graphics		
6.4.2 Move graphics		
6.4.3 Resize graphics		
6.4.4 Copy / Paste graphics		
6.4.5 Delete graphics		
6.5.1 Insert text boxes		
6.5.2 Type text into text boxes		
6.5.3 Move text boxes		
6.5.7 Format Text (font face/ colour / size / bold)		
6.7 Save		
6.10 Exit		
<b>Insert a tick where appropriate (✓)</b>		

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<b>e-Learner Skills</b>	<b>Practice</b>	<b>Assess</b>
<b>Unit 2 - Files and Folders</b>	✓	✓
2.2.1 Right / Left click mouse		
2.2.2 Single / Double click mouse		
2.3.1 Alpha / numeric keys on keyboard		
2.3.2 Special Keys (Ctrl / Alt / Shift etc) on keyboard		
2.4 Recognising icons		
2.5.1 Open / Exit programmes Using Shortcuts		
2.5.2 Open / Exit programmes Using Start Menu		
2.7.1 Navigating through folders / Folder structure		
2.7.3 Navigating within a file (scrollbar / hyperlinks)		
2.7.4 Opening Files		
2.7.5 Saving Files		
2.7.6 Closing Files		
<b>Insert a tick where appropriate (✓)</b>		

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<b>Integrated Activity: Create a presentation about the Ebola Virus, how to prevent it and how it is spread.</b>		
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<b>e-Learner Skills</b>	<b>Practice</b>	<b>Assess</b>
<b>Unit 7 - Web Browsing and Email</b>	✓	✓
7.1 Open web browser		
7.3.2 Access Saved web page		
7.4 Search engines		
7.5.1 Using Hyperlinks		
7.5.2 Using Scrollbars		
7.5.3 Using Forward / Back button		
7.7 Copy / Paste Information		
7.8.1 Save Images		
7.11 Exit Web Browser		
<b>Insert a tick where appropriate (✓)</b>		



## INTEGRATED ACTIVITY

In order to promote relevant discussion, the following questions are posed by the educator to the learners:

- **Give a brief definition of what the word Ebola means to you.**
- **How can you get the Ebola virus?**
- **Can you list any prevention methods?**

A short discussion takes place about Ebola, what the virus is, how to prevent it and how it can be spread.

**Task: Today you are going to create a presentation about the Ebola virus. Give as much information as you possibly can.**

*Note: You may need access the following Website Links to find all the information you need:*

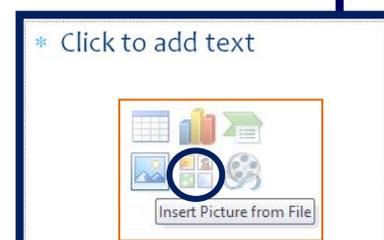
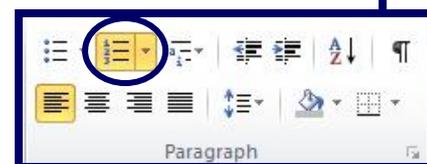
<http://www.pbs.org/newshour/updates/know-enemy/>

[http://en.wikipedia.org/wiki/Ebola\\_virus\\_disease](http://en.wikipedia.org/wiki/Ebola_virus_disease)

1. Open the **Microsoft PowerPoint programme** by double clicking on the **Microsoft PowerPoint icon** on the desktop or by clicking **Start → Programs → Microsoft Office → Microsoft PowerPoint**
2. **Save your document into your digital portfolio → File → Save As → locate your portfolio → double click → type a suitable name in the file name box → Save.**
3. Do research by accessing the links found above.
4. **Record any relevant** information on the Ebola virus, how it is spread and what to do to prevent it, on a scrap piece of paper. It is important that you do this using your own words.
5. Once your research is complete, **close** the Internet → **File → Exit**
6. Choose an appropriate design layout for you slide → **Design Ribbon → choose an appropriate design.**
7. Select the first auto layout option by clicking on **Home Ribbon → Layout → "Title Slide"**.



8. Insert a suitable **heading** by clicking on "Click to add title" box → **type a suitable heading** eg: "Ebola Virus"
9. To change the colour and effects of your heading select it → **Format Ribbon** → **Text Fill and Text Outline options** → **select an effect or colour**
10. Type your name and class in the "Click to add subtitle box" on the title slide underneath your heading.
11. To insert a new slide → **Home Ribbon** → **New Slide**
12. Use this slide to describe the Ebola virus.
13. Click on the box "Click to add title" and type a suitable title for this slide eg: **"What is Ebola?"**
14. Next you are going to add your information, by clicking on the "Click to add text" box.
15. Add a New Slide as shown in previous steps.
16. Select an auto layout option by clicking on **Home Ribbon** → **Layout** → **"Content and Caption"**.
17. Use this slide to describe how the Ebola virus is spread.
18. Use Bullet points for this slide → **Home Ribbon** → **Paragraph Tab** → **Number Bullet Icon**
19. *Note press "enter" on your keyboard to start a new point – it will automatically insert a new bullet point.*
20. To **insert Clip Art** on this slide, click on the **Clip Art icon** → **locate the images you would like to insert using search terms such as "blood" or "skin" etc** → **click once on the chosen Clip Art and it will appear on your slide.**
21. To insert a new slide → **Home Ribbon** → **New Slide**
22. Use this slide to describe how the Ebola virus can be prevented.
23. Insert suitable Clip Art images in the same way you did previously.
24. To animate your slide presentation, click on your first slide and then on **the Transitions Ribbon** → **select a suitable animation** (You will see a panel appear on the top of your page.)
25. To animate each object you will need to **first select your object** like an image → **select a suitable effect.**



26. Now we will change how the object enters the slide show. First **select** the object → Look on the right of the **Animations Ribbon** → **select either on click, after previous or with previous.**



27. This option allows the object to either only appear when you click, after the object before it, or with the object before it.

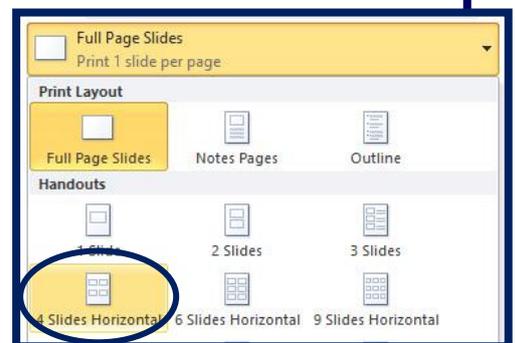
28. Do the same to each slide until you have animated every slide in the presentation.

29. Click on **Slide Show Ribbon** → **From Beginning**



30. **Print your presentation – 4 slides per page** → **File** →

**Print** → under **Settings** → **Full Page Slides** → **4 Slides Horizontal** → **Print**



31. **Close Microsoft PowerPoint by clicking on File** → **Exit** or **clicking on the X in the top right hand corner of the screen.**



## Ebola Virus

John Freed

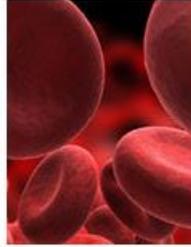
## What is Ebola?

Ebola is an extended family virus called Filoviridae and it is a "hemorrhagic fever virus", meaning that it causes fluid to leak from the blood vessels, causing a major drop in blood pressure. The Ebola virus has a filament-like structure, which means it gives more surface area, allowing it to attack a larger amount of cells.

## How does Ebola spread?

The virus can spread through an infected person's:

1. Vomit
2. Blood
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## Preventing Infection

- Avoid direct contact with an infected person.
- Wash hands regularly with soap and water.
- Bush meat – from the wild, needs to be handled appropriately – wear protective clothing and thoroughly cook the meat before eating it.
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