



Integrated ICT Learning Unit

Earthquake!

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆

Earthquake!

The *cause* is what made something happen. The *effect* is what happened after the cause.

Earthquakes are results of a sudden release of energy in the earth's crust. This causes large sections of the rock underground to break and move suddenly. This causes the ground to shake. Sometimes they can be the most powerful events that happen on earth. Some can cause lots of damage, such as buildings and bridges to fall. Others have been able to cause a river to change its path. Earthquakes that happen near mountains and cliffs can cause landslides that can cover up houses and roads below it. If a large earthquake happens below the ocean it can cause giant waves which flood the land. Earthquakes can cause fires by damaging electrical power or gas lines. Broken telephone lines and damaged roads, make it difficult for rescue workers to help save people who are in danger.

Overview

This integrated ICT learning unit consists of one activity which explores the concept of **earthquakes**.

Lesson format:

- 10 minutes Educational game (optional; at the discretion of the teacher)
- 5 minutes "Tech Talk" which introduces ICT terminology
- 5 minutes Touch Typing skills which develops essential touch typing techniques
- 20 minutes+ Integrated activity involving tasks which relate to relevant content being covered in the classroom

ICT applications used in this Learning Unit:

Word Processing	Graphics	Spreadsheets	Databases	Internet	E-mail	Presentations	Drawing	Web design	Information Organiser	Simulations & design	Desktop Publishing	Operating Systems	Programming & logic
√										√			

Structure of the Learning Unit:

Integrated Activity

This lesson is aimed at integrating ICT into current, relevant class curriculum. Using this approach enables learners to use the computer not only as a working tool but also as a relevant learning tool to learn new concepts and skills or consolidate previously learnt work. This activity will take between 20 – 60 minutes (or 1-3 lessons) to complete depending on the ability of the learners and the time available.

e-Learner Assessment

The required assessment for each unit is completed by the ICT teacher by means of evaluating each skill on the skills matrix. The ICT teacher can indicate on the skills matrix whether the skill is being practised or developed by inserting a tick in the appropriate column next to the appropriate skills. Should the teacher wish to formally assess the skills, a symbol of 1, 2, 3 or 4 is inserted into the matrix in the assess column next to each skill assessed. The corresponding skills should also be marked off on the e-Learner Administration System and forwarded to Head Office when completed. As a pre-requisite for accreditation, all the required skills for each e-Learner unit need to be mastered. In this way, the level of ICT competency as well as the progress of each learner can be monitored. This matrix may be printed or photocopied for each learner.

STRUCTURE OF LESSON EARTHQUAKE

INTEGRATED LESSON	
Prior Learning Requirements	
Concept / Topic: Knowledge of earthquakes	
ICT Skills: Entering text into textboxes	
Educational Game	10 Min
A suitable educational game may be used as an optional activity at any point during the course of the lesson at the discretion of the ICT or class teacher	
Touch Typing	5 Min
A suitable activity should be selected by the ICT or class teacher to ensure continuity and progression of appropriate skills	
Tech Talk	5 Min
ENTER KEY Also known as the return key. This key (usually shaped) gives the computer a command similar to "ok" or "go-ahead/yes". It takes you onto a new line when doing word processing.	
Integrated Activity	20 Min
Learners fill in the effects of earthquakes.	
Resources Used	
Software: Microsoft Word	
Prerequisite: None	
Template: Earthquake.docx	
WWW: None	
Learning Outcomes	
<ul style="list-style-type: none"> • Language • Life Skills 	
Additional Learning Opportunities	
Concept / Topic: 7.9 Natural Disasters	
ICT Skills: 5.11 Crossing Borders	
Beyond the ICT Centre	
<ul style="list-style-type: none"> • Design a poster about earthquakes. 	

Learner name:	Class	
Integrated Activity: Learners fill in the effects of earthquakes.		
Theme/Topic: Earthquakes	Integrated Activity	
e-Learner Skills	Practice	Assess
Unit 2 - Files and Folders		
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 / Caps / Space etc) on keyboard		
2.7.4 Opening Files		
2.7.5 Saving Files		
2.7.6 Closing Files		
4 = Exceeded Requirements 3 = Satisfied Requirements 2 = Partially Satisfied Requirements 1 = Has Not Satisfied Requirements		

Learner name :	Class:	
Integrated Activity: Learners fill in the effects of earthquakes.		
Theme/Topic: Earthquakes	Integrated Activity	
e-Learner Skills	Practice	Assess
Unit 4 - Word Processing		
4.1 Open programme		
4.2.1 Start new document		
4.3.1 Insert text		
4.3.2 Format Text (font face/ colour / size / bold / underline)		
4.3.3 Align text		
4.8 Save		
4.9 Print Preview		
4.10 Print		
4.11 Exit		
4 = Exceeded Requirements 3 = Satisfied Requirements 2 = Partially Satisfied Requirements 1 = Has Not Satisfied Requirements		



INTEGRATED ACTIVITY

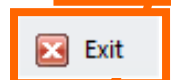
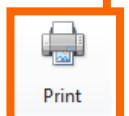
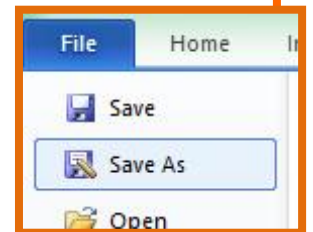
In order to promote relevant discussion, the following questions are posed by the educator to the learners:

- **Do you know what causes an earthquake?**
- **What can happen after an earthquake has occurred?**
- **Can you name some effects of an earthquake?**

A short discussion takes place about earthquakes.

Task: Today you are going to fill in the effects of an earthquake.

1. Open the **Microsoft Word template** by double clicking on "Earthquake.docx" file inside the folder you just downloaded.
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. Read through the paragraph about earthquakes.
4. Click next to point number 1 in the globe → **type in 10 effects of a earthquake.**
5. Once you have typed in 10 effects of an earthquake, click inside the textbox that says "Type your understanding of an earthquake..." → **highlight this text** → **press the "Delete" key on the keyboard** → **type your own understanding on earthquakes.**
6. To check that your work is ready to print, click **File** → **Print** → **a print preview will appear in the right hand panel** → Make changes if necessary → **close print preview** → **Home ribbon.**
7. Print your document **File** → **Print** → **Print Button.**
8. Save your work → **File** → **Save.**
9. Close **Microsoft Word** by **clicking** on **File** → **Exit** or clicking on the top **"X"** at the top of your screen.



Earthquake!

The *cause* is what made something happen. The *effect* is what happened after the cause.

Earthquakes are results of a sudden release of energy in the earth's crust. This causes large sections of the rock underground to break and move suddenly. This causes the ground to shake. Sometimes they can be the most powerful events that happen on earth. Some can cause lots of damage, such as buildings and bridges to fall. Others have been able to cause a river to change its path. Earthquakes that happen near mountains and cliffs can cause landslides that can cover up houses and roads below it. If a large earthquake happens below the ocean it can cause giant waves which flood the land. Earthquakes can cause fires by damaging electrical power or gas lines. Broken telephone lines and damaged roads, make it difficult for rescue workers to help save people who are in danger.

