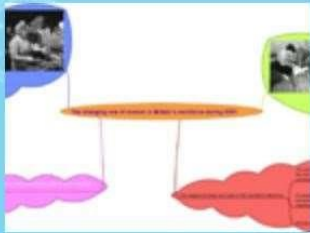




Integrated ICT Learning Units
Overview of lesson activities, software and required templates
Level 1-3 and K53
High School Version 1.7

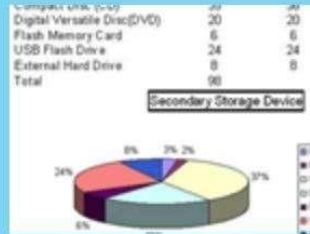


LEVEL 1



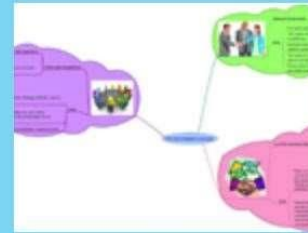
L1.1 Women's Roles in Britain

Create a timeline outlining how women's roles changed during WW1 in Britain.



L1.2 Data Storage

Explore the basic functions of a spreadsheet using secondary storage devices as a learning tool.



L1.3 The Government Economy

Create a mindmap outlining the different government sectors and how each one affects the economy.



L1.4 Temperature

Research information on the Internet about average temperature figures of a town/ city in your country. Graph the information.



L1.5 Celebrations

Find out about an upcoming festival which is going to be celebrated by someone of a different culture in your class. Create a greeting card.



L1.6 Natural Wonders

Plan a trip around the world to see the 7 natural wonders of the world. Indicate your route on a map. Calculate the distance covered in a spreadsheet programme



L1.7 Computer Hardware

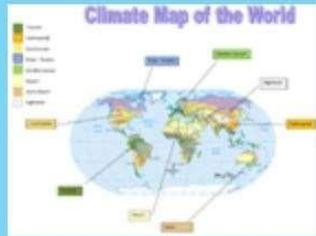
List and explain computer hardware that makes up a computer.

Plastic Symbols					
Symbol	Material	Recycling Code	Material	Material	Notes
1	PE	1	PE	PE	High-density polyethylene (HDPE)
2	HDPE	2	HDPE	HDPE	High-density polyethylene (HDPE)
3	PVC	3	PVC	PVC	Polyvinyl chloride (PVC)
4	LDPE	4	LDPE	LDPE	Low-density polyethylene (LDPE)
5	PP	5	PP	PP	Polypropylene (PP)

L1.8 Plastic Identification

Create a document that identifies the different types of plastic. Tabulate your results.

LEVEL 1



L1.9 Climate Map of the World

Create a labelled map differentiating the climates found in countries around the world.



L1.10 Human Diseases

Create a concept map about human diseases.



L1.11 Structure of the Earth

Learners create a table explaining the layers of the earth and how each layer differs.

Mode	Type	Image	Define
Water transport			This is a mode of transport powered by human muscle power.
	that uses an internal engine		This mode of transport requires animals to move people or goods.
Air			This is a mode of transport that uses a motor vehicle to move people or goods.

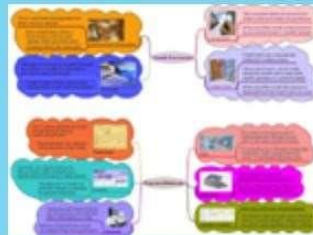
L1.12 Modes of Transport

Research and list all 9 different modes of transport in table form.



L1.13 My Favourite Sport

Research information on the Internet about your favourite sport and compile an informative brochure.



L1.14. Consumer Knowledge

Learners create concept maps showing their understanding of the various forms of credit purchases and methods of payment.

Ingredients	Quantity	Measure	Weight/g/L	Cost
Flour	100g	100g	0.10	0.10
Butter	50g	50g	0.10	0.10
Eggs	2	2	0.10	0.10
Sugar	100g	100g	0.10	0.10
Baking powder	10g	10g	0.10	0.10
Vanilla essence	10ml	10ml	0.10	0.10
Chocolate	100g	100g	0.10	0.10
Food coloring	10ml	10ml	0.10	0.10
Total				

L1.15 Quantity Conversation

Create a conversion table for recipes using the mathematical and logical functions in a spreadsheet programme



L1.16 Experiments

Create a visual organiser called "Experiments"

LEVEL 1



L1.17 Keyboard Knowledge

Identify and mark the location of various special keys on the keyboard



L1.18. A Day with Computers

Create a timeline documenting your interaction with computers during the course of a day



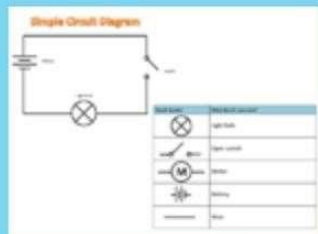
L1.19 Input Output

Sort and classify input and output devices



L1.20 Cell Phone Caution

Create a mind map of all the dangers of using a cell phone and come up with solutions to the problems.



L1.21 Simple Circuit Diagram

Create a labelled diagram of a simple circuit using shapes.



L1.22 Online Personal Safety

Learners identify the different forms of online personal safety.



L1.23 Types of Relationships

Format relationship types from a PDF into a word processing program.

ANY TYPE OF ADDICTION	
Do	Don't
Ask the support of others with similar problems	Preach, lecture, or allow yourself to lose control of your anger
Form a self-help group for families	Expect immediate recovery
Present the problem to the physician in the home	Make threats or issue ultimatums, unless you intend to carry them out
Recognize your partner's good values	Exclude the addict from family life and activities
Remain calm when speaking to your partner about his or her addiction and its consequences	Blame the addict
Let your partner know that you are seeking help for your own sake because of the way the addiction affects the household	Cover-up or deny the existence of the problem to yourself, the family, or others

L1.24 Do's and Don'ts

Tabulate the Do's and Don'ts when a member of the family has an addiction problem.

LEVEL 1



L2.1. Classification of Matter

Create a concept map presenting the classification of matter by its state



L2.2. Drugs

Create a concept map with relevant information about drugs that the youth have access to

Sport Selection

Sport	Frequency	Other
Football		
Cricket		
Badminton		
Table Tennis		
Swimming		
Others		

What is your favourite sport?

What other sports should be introduced into the school?

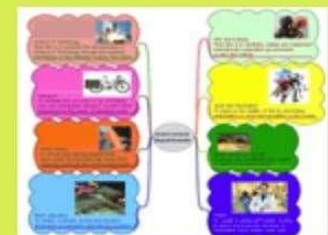
What sport demands the highest level of concentration?

What sport requires improvement in our school?

What sport requires the most amount of energy?

L2.3. Sport Survey

Compile a survey form in a spreadsheet programme about what should be in your school



L2.4. The Cabinet

Create a concept diagram about the Cabinet of Ministers

Part of Heart	Structure	Function	Other	Relevant Information
Right Atrium	It is the upper right chamber of the heart. It receives deoxygenated blood from the body.	It pumps deoxygenated blood to the right ventricle.	It is located in the upper right part of the heart.	It is the first chamber of the heart to receive deoxygenated blood.
Right Ventricle	It is the lower right chamber of the heart. It receives deoxygenated blood from the right atrium.	It pumps deoxygenated blood to the lungs.	It is located in the lower right part of the heart.	It is the second chamber of the heart to receive deoxygenated blood.
Left Atrium	It is the upper left chamber of the heart. It receives oxygenated blood from the lungs.	It pumps oxygenated blood to the left ventricle.	It is located in the upper left part of the heart.	It is the first chamber of the heart to receive oxygenated blood.
Left Ventricle	It is the lower left chamber of the heart. It receives oxygenated blood from the left atrium.	It pumps oxygenated blood to the rest of the body.	It is located in the lower left part of the heart.	It is the second chamber of the heart to receive oxygenated blood.

L2.5. The Body - Human Heart

Create a table explaining different parts of the human heart and their functions



L2.6. Smoking

Create a concept map about the issues surrounding smoking



L2.7. Keeping in Contact

Create a concept map of various forms of communication



L2.8. Plants

Watch a presentation on plants and then carry out a survey on importance of plants in class.

LEVEL 1



L2.9. Sense Organs

Label a diagram of the eye; giving each a label and definition



L2.10. Communication

Research information about the development of communication and create a time line



L2.11. Periodic Table

Draw up a Periodic Table with all elements placed correctly



L2.12. Goal Setting & Study Skills

Create a presentation on how to set goals, how to achieve them, and how to study.



L2.13. Financial Skills

Create a holiday budget in a spreadsheet programme



L2.14. Calculating Costs

Graph and analyse data from survey. Research costs of items and compare prices.



L2.15. Bicycle Gear System

In a presentation, label parts of a bicycle gear system, explaining how each part works



L2.16. The Water Cycle

Create a presentation which explains the five processes of the water cycle

LEVEL 1



L2.17. Devices

Identify and describe devices as being input or output



L2.18. Storage Size

Identify various storage media and allocate files to them



L2.19. Safety Measures

Itemise points relating to safety procedures when using a computer



L2.20. Time Enough

Compare the development of computers through History by matching pictures to correct dates and completing information. They then write a brief synopsis about what they have learnt.



L2.21. Earth Day Invitation

Create an invitation to a Earth Day event.



L2.22. Genetically Modified Foods

Using a spreadsheet programme learners plot a graph to represent where genetically modified foods are grown around the world.



L2.23. Make an Opportunity

Create a PowerPoint presentation showing ways of earning money without a job.



L2.24. Mood Board and Print

Create your own mood board.

LEVEL 3



L3.1. Career World

Create a table about listing different career paths you are interested in and the subjects you would have to study to pursue them.



L3.2. Human Rights

Research Human Rights on the Internet and create a presentation about Human Rights



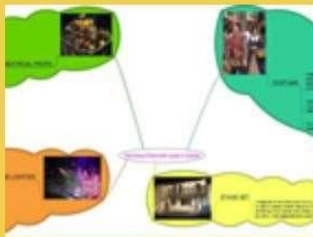
L3.3. World Donors

Create a spreadsheet comparing statistics your country, the top 3 and bottom 3 donors in the world (from the top 20 generous countries list)



L3.4. Planet Managers

Research data on the Internet and create a spreadsheet and graph showing the differences between the population and population densities in the world from continent to continent



L3.5. Technical Elements Used in Drama

Create a mindmap outlining the technical elements used in drama to enhance stage presence, performance or structure.



L3.6. Net Worth

Create a presentation which explains the different terms that are used when managing your business.



L3.7. Global Organisation

Create a presentation about global organizations and their aims



L3.8. Africa's Largest Countries

Create an information table about the 7 largest countries in terms of area, in Africa



L3.9. HIV AIDS

Research information about HIV/AIDS statistics and create spreadsheets and graphs. Analyse the information



L3.10. Conservation

Research conservation and the different conservation methods.



L3.11. The Business Plan

Create an animated presentation which outlines how you will go about setting up and starting your own business.



L3.12. The Balance of Nature

Create a concept diagram about the Balance of Nature and all the influencing factors.



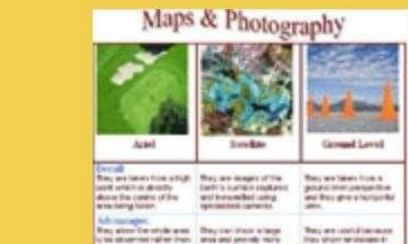
L3.13. World War

Research information and create a graphics organiser about World War1 & 2 using a spreadsheet programme



L3.14. Diversity

Create a presentation about customs and how diverse they are



L3.15. Maps and Photography

Complete a chart about the three main photograph types



3.16. The World Wide Web

Research about the World Wide Web (WWW) on the Internet and create a presentation about its history

LEVEL 3



L3.17. Files and Folders

Allocate file to folders and note their paths



L3.18. Health and Safety

Create an informative poster relating to safety procedures when using a computer



L3.19. Easy Email

Create an email and add an attachment



L3.20. Devices Galore

Research and produce a PowerPoint presentation about one of the technological devices on the market today.



L3.21. Global Warming

Create a presentation on global warming, the effects on humans and animals and how greenhouse gases impact global warming.



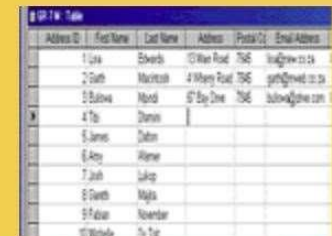
L3.22. My Dream Car

Using a spreadsheet programme learners work out the compound and simple interest on their dream car.



L3.23. Basic CPR Skills

Create a presentation for the basic steps on how to perform CPR.



L3.24. Working Smart - On Top Form

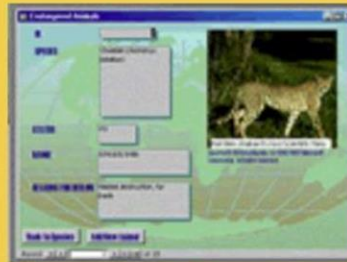
Students create a simple database of fellow learner's personal details.

LEVEL 3



L3.25. Working Smart - Reporting In

Students create forms and reports of learner database details and compile an address book of fellow learner details.



L3.26. Threatened Species - Going on Record

Students modify (update) an existing database of endangered species by adding records and inserting pictures.



L3.27. Threatened Species - Curious Queries

Students run queries to extract certain information from an existing database. Save these queries as tables in the database.



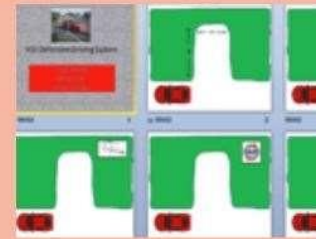
K53.1 Pre-check - Interior

Study the diagram of the interior of a car and explain what each number stands for and what they need to check.



K53.2 Road Signs

Study all the given road signs, classify and group them, and then copy and paste the different groups to separate pages in a spreadsheet programme.



K53.3 Alley Docking

Watch a You-tube video about alley docking, describe the sequence and recreate the maneuvers using a presentation programme.



K53.4 Traffic Signals

Complete sentences and explain different traffic signal types. They then need to match the various different traffic signals with their explanations and group them together..



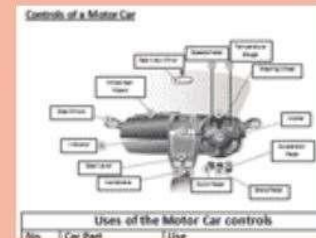
K53.5 Warning Signs

Hyperlink Warning Signs seen on the road to a new document containing explanations of each sign which they need to complete..



K53.6 Parallel Parking

Watch the You-Tube video about Parallel Parking and then practise it themselves while getting someone else to video it. They then insert the video into a presentation programme and comment on their attempt.



K53.7 Motor Car Controls

Label the various controls of the car and explain the function of each one in the table provided.



K53.8 Road Safety

Study various different pictures related to road safety. They type a short paragraph explaining each one or what they can do to make a situation safer, and then format the text in the text boxes..

K53

Province	Learner's Licence Test	Learner's Book	Driver's Licence Test	Cost of Learner's
Western Cape	88	65	125	478
Free State/Natal	110	70	100	680
Inner State Province	110	70	110	110
Gauteng	100	60	100	100
Northern Cape	55	55	110	80
Eastern Cape	25	25	40	100
Northwestern	120	50	120	110
Limpopo	120	70	100	80
South West	120	70	120	120

John Khumalo



K53.9 Cost of a Learner's Licence

Study the given information and do a website search to find the cost of driving lessons in their area. They then use a formula to calculate how much in total it will cost to obtain a Learner's and Driver's Licence.

K53.10 Rules of the Road

Match various driving and hand signal graphics to the text boxes describing them.

K53.11 Pre-Check - Exterior

Insert a table into a word processing programme which they will use to type in the part to be checked, followed by the explanation for that part of the motor vehicle.

K53.12 3-Point Turn

Watch a short You-Tube video and then recreate a 3-point turn using a presentation programme.



K53.13 Defensive Driving

Insert a few slides into a presentation programme that highlight some of the basic elements of defensive driving, and outline procedures to follow when faced with dangerous situations.

K53.14 Email to Driving Instructor

Send an email to a driving instructor asking a few questions about the cost and number of lessons that will be needed.

K53.15 Reply from Driving Instructor

Check emails from various different driving instructors and draw up a table to help you make your decision about who to choose to give you your driving lessons

e-Learner Uganda Ltd P.O.Box 20042, Kampala
Legacy towers, Ministry of education & sports
4th floor, Basic Department, Kyandodo road
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www.elearner.education