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A. Introduction

The learning principles of the Primary School Curriculum

The Primary School Curriculum presents a vision of education, which is expressed in three general aims:

• To enable the child to live a full life as a child, and to realize his or her potential as a unique individual.

• To enable the child to develop as a social being through living and cooperating with others and so contribute to the good of society.

• To prepare the child for further education and lifelong learning.

To support children's ongoing realization of their potential as individuals and as members of society, it is important for the primary school teacher to incorporate a range of teaching and learning resources into his or her teaching methods. Guided by the needs of the individual child, the philosophy and content of the curriculum, and the use of tools and resources that can enhance the child's learning, the teacher can design learning experiences that support the broadly stated aims of the Primary School Curriculum.

Specific aims for ICT use in the primary school include:

- To enable the child to use a range of ICT tools in a relevant curriculum context
- To enable the child to develop and use ICT skills in the attainment of curriculum learning objectives

• To foster the child's confidence in his or her use of ICT, through enjoyable learning experiences

• To develop the child's understanding and practice of the safe use of ICT

• To enable the child to overcome barriers of access to learning resources caused by geographic location, culture, or language

• To enable the child to use ICT to support his or her learning effectively and creatively

• To inform the child's attitudes regarding the role of ICT in society, including the benefits and challenges of ICT use

• To support the development of the child's social skills through cooperative learning and problem-solving.

PRINCIPLE OF LEARNING	TEACHING AND LEARNING
	STRATEGIES USING ICT
The child's sense of wonder and natural curiosity Children's natural sense of wonder at the complexity of the world is a powerful motivation for their learning.	The child's sense of wonder and natural curiosity may be engaged by using content-free software. For example, programming software and LOGO with their potential for the dynamic representation of real-world phenomena, can enable children to experiment with procedures and outcomes in a controlled context
	 Additional uses of ICT to support this principle of learning include: exploring and investigating using the WWW collaborating and communicating with children in other schools, and in other countries in real time.
The child as an active agent in his or her learning Learning is an active process of constructing knowledge, rather than simply acquiring knowledge.	ICT tools can promote active learning by enabling the child to find, manage, evaluate and use information retrieved from CD-ROMs and websites. By providing access to a range of information resources, ICT can be used to support the child on a journey of discovery that requires decision-making at numerous junctures in the learning experience. The child can discuss his or her findings, and share them with others using presentation and authoring software. Additional uses of ICT to support this principle of learning include: • exploring Web Quests, and Learning quests • using drawing and paint software to create and edit designs and patterns • using digital cameras and digital video on field trips to capture images of events for project work, and for active engagement in the wider environment.
The developmental nature of learning	ICT can support children as it offers
Conceptual development is more of a cyclical	opportunities to revise concepts and skills
than a linear process for the child.	embedded in game-like situations.
The Primary School Curriculum recommends	Content-rich software, that offers tutorials,
that children receive regular opportunities to	simulations, and practice problems, can be
have already been acquired	used effectively for the reinforcement or the revision of concents
The Primary School Curriculum recommends that children receive regular opportunities to revisit concepts, information and skills that have already been acquired.	Content-rich software, that offers tutorials, simulations, and practice problems, can be used effectively for the reinforcement or the revision of concepts

B. ICT and the principles of learning in the Primary School Curriculum

	ICT anten la the man a sub la	
I ne child's knowledge and experience	IC I extends the range of classroom learning	
as a base for learning	tools it offers the teacher and the child. It	
It is a fundamental principle of the	affords the opportunity to select learning	
Primary School Curriculum that children's	experiences that begin with each child's	
existing knowledge and experience should be	knowledge and experience, and are thus most	
the starting point for acquiring new	meaningful to the child.	
understanding.		
	Additional uses of ICT to support this	
	principle of learning include:	
	• Internet resources such as Web Quests offer	
	the child a range of predetermined websites in	
	a given content area. The child must choose the	
	most appropriate sites to answer the complex	
	questions provided in the Web Quest.	
	 multimedia tools like video equipment 	
	enable children to record and chart their own	
	learning progression	
	• the combined range of ICT tools enable the	
	teacher and child to maintain a useful record of	
	each child's journey from the unknown to the	
	known in the form of an electronic portfolio.	
Environment-based learning	ICT extends the child's immediate learning	
The classroom environment is a vital	environment, offering opportunities to push	
determinant of the range of learning	learning beyond the confines of the classroom.	
experiences accessible to children.	Uses of ICT to support this principle of	
	learning include:	
	 exploratory software, for example 	
	problem-solving simulations, enable	
	children to experiment with procedures	
	and processes which might not	
	otherwise be possible	
	 informational websites available 	
	through the Internet provide	
	opportunities for children to learn about the	
	world beyond their	
	classroom	
	• Communication technologies such as e-mail	
	and video-conferencing, offer children	
	opportunities to exchange information about	
	their own local environment with others.	

Learning through guided activity and discovery The curriculum underscores the importance of the teacher in providing effective learning experiences for each child. As the gatekeeper for the child's classroom learning, the teacher designs learning experiences that motivate children, offer feedback and advice, and provoke reflection.	ICT tools can support the teacher in scaffolding each child's particular path to learning. For example, curriculum-rich software offers the teacher and the child opportunities to structure both the level and sequence of content presented. These software programs typically include options for practice problems or workouts, and provide varied levels of feedback to children based on their performance.
	 Additional uses of ICT to support this principle of learning include: exploring and discovering information for projects and learning quests, through the use of Web quests, and other guided Internet searches supported by the teacher learning to use digital equipment and tools supported by the teacher.
Learning through language The Primary School Curriculum stresses the vital role of language in children's development, and incorporates the use of talk and discussion as a central learning strategy in every Curriculum area.	ICT offers the child a motivational context for his or her engagement with content, and thus serves as a powerful stimulus for the child's talk about his or her learning experiences. When the child is given regular opportunities to discuss with peers and teachers what he or she knows and can do when using ICT, technology enhanced classrooms can provide a powerful catalyst for a child's learning in the primary school. <i>Additional uses of ICT to support this</i> <i>principle of learning include:</i> • multimedia tools and software may also provide opportunities for children to document, through audio or video or both, the interaction between language and experience, by recording their learning for later reflection and discussion.
The aesthetic dimension Valuing children's creative response to, and expression of, their own knowledge and experience is an important principle of the Primary School Curriculum.	ICT extends the range of opportunities for children's creative expression by offering a variety of content-free software tools, such as multimedia and art and design software, that support multiple methods of constructing, exploring, and representing knowledge. <i>Additional uses of ICT to support this</i> <i>principle of learning include:</i> • the Internet may offer a suitable site

The social and emotional dimensions of learning The Primary School Curriculum recognizes that the child's social and emotional development significantly influences his or her success with learning in school.	for publishing children's work on the school website, for viewing by parents and collaborating schools • presentation software offers children opportunities to share their work with others in the same class, within the school, with parents and partner schools, when they create and record examples of their work. ICT can offer children increased opportunities to experience success with learning. It extends the range of learning experiences afforded to children, offering opportunities to learn through visual, audio, and kinesthetic media, as well as through text. For example, content-rich software typically offers the child control over the level of information presented, the rate at which it is presented, as well as the formats for presenting information (Image, text, audio).
L ee -SCHO	 Additional uses of ICT to support this principle of learning include: ICT offers the child opportunities to develop social skills through turn taking, sharing resources, and helping other children in collaborative project work collaborative classroom-based projects which use technology features such as e-mail, chat, threaded discussion, and video-conferencing can be used by children to support one another in the learning process
The integration of learning The distinctions between subjects are not relevant to young children, and neither do subject demarcations characterize the nature of learning in the real world. The Primary School Curriculum emphasizes the importance of providing opportunities for children to make connections between their learning in different subjects. Authentic learning activities engage children in real-world tasks that transcend the boundaries between subjects.	ICT facilitates authentic learning by offering opportunities for children to experience the outside world within their own classroom. This experience is facilitated by using the Internet to find information, as well as providing facilities for the child to share their findings with others, using a range of communication tools – e-mail, threaded discussions, chats, and video conferencing. Additional uses of ICT to support this principle of learning include: • using content-free software, for example databases and spreadsheets, to enable children to undertake projects with interdisciplinary learning objectives, which emphasize the interconnectedness of knowledge and ideas.

The transfer of learning	ICT can support the child's appropriation		
Children's ability to apply what they have	of new knowledge by offering him or her		
learned to new situations is one key indicator	a range of knowledge representation tools such		
of the success of their learning By cultivating	as concept mapping software presentation		
each child's ability to transfer learning the	software and database software, which support		
tanghar analog the shild to oversome the	the shild's afforts in structuring his or her		
problem of inert knowledge (knowledge that	learning for later retrieval and application.		
can be recalled when the child is prompted to			
remember it, but which he or she does not	Additional uses of ICT to support this		
spontaneously use to solve problems).	principle of learning include:		
This is a central feature of the Primary	 the strong multi-sensory presentation 		
School Curriculum.	style of much of ICT support software		
	can support children's different		
	learning styles		
	• exploring problem-solving tasks in the		
	controlled environment of a simulation		
	controlled environment of a simulation		
	the child's learning by providing him or		
	her with strategies which they can		
	transfer to real life situations		
	• using a science exploratory simulation		
	software package to investigate the		
	implications of controlling angles, forces, and		
	motion, can aid the child in transferring what		
	he/she has learned to a real-life situation.		
Higher-order thinking and	The Internet offers teachers and children a		
nrohlem-solving	wealth of authentic learning resources which		
Higher-order thinking involves asking	when pre-selected by the teacher can support		
questions defining problems examining	the development of children's abilities to		
evidence analyzing assumptions and biases	question to analyze to investigate and to think		
considering alternative interpretations	critically		
tolerating ambiguity and so forth. The Drimory	citically.		
Solve all Commission was a start three here in a	Additional and fICT (a surger of this		
School Curriculum promotes these learning	Additional uses of IC1 to support this		
experiences for all children across subjects.	principle of learning include:		
	• critical use of the Internet as an		
	information resource will aid the		
	development of children's abilities to		
	search for, manage, evaluate, use,		
	apply and create information		
	• a variety of online formats, for		
	example, topic hotlists and Web Quests,		
	offer teachers opportunities to		
	structure children's use of the World		
	Wide Web (WWW) for achieving		
	narticular learning objectives		
	• content_free software like databases		
	enreadsheets and micro worlds offer shildren		
	opportunities to interpret and manipulate data		
	LODODUUDUUES TO INTERDIET AND MANIMULATE DATA		
	opportunities to interpret and manipulate data		

Collaborative learning	ICT can extend and elaborate the possibilities		
While recognizing the importance of	for collaborative learning. It provides		
learning in a variety of classroom	opportunities for children to construct		
organizational structures, the Primary	knowledge collaboratively when working		
School Curriculum notes that opportunities for	together on tasks using one computer.		
collaborative learning significantly contribute			
to the child's social and personal development.	Additional uses of ICT to support this		
When children collaborate, the interactive	principle of learning:		
exchange involves sharing the same goal, and	• children can work collaboratively when		
engaging in shared decision-making.	they use communication technologies		
	such as e-mail and video-conferencing		
	to collaborate with partners in learning		
	in different schools or countries		
	• The teacher can organize the classroom to		
	facilitate cooperative learning, by organizing		
	children to work in pairs, by promoting turn		
	taking, and group work on different aspects of		
	a project, with some groups completing tasks		
	using ICT. Collaborative work in		
	this way has the advantage of including and		
	valuing the contributions of all children,		
	including those with Special Educational		
	Needs, and leads to positive learning outcomes		
	for all those involved. For example, when		
	working on a project, one group of children		
	may paint, another group may write stories		
	using the word processor, another group may		
	be responsible for the collection of information		
	from websites, another group use the		
	encyclopedia, while another use the digital		
	camera and scanner.		
Taking account of individual difference	Multiple pathways to learning which different		
The Primary School Curriculum recognizes	ICT tools offer the child may enable the child		
not only individual difference in learning, but	to experience success with learning, and		
factors that pertain to the child's home and	thereby positively influence the child's interest		
community life, and it recommends that	in the relevant curriculum subject. The		
children benefit from differentiation in the	possibilities for differentiation can be		
selection and sequencing of curriculum	particularly supportive for the child with		
content.	Special Educational Needs.		
	Additional uses of ICT to support this		
	principle of learning include:		
	• content-rich software typically		
	represents information through more		
	than one format (text. audio, image		
	etc.), and provides options for the pacing and		
	sequencing of information, so that instruction		
	can be tailored to each child's individual		
	learning needs and learning style		

• the range of content-free software
available including writing, multimedia
and concept mapping software, also
supports children's different learning
styles
• the possibilities for the teacher to
support the differentiation for the
specific learning needs of individual
children can be aided through the
creation of worksheet templates, and
reinforcement software for those
children who require additional time
practicing a skill or concept
• ICT assessment tools such as electronic
portfolios may also engage the child's interest
in his or her learning by increasing the
transparency of progress records.

The use of ICT in the primary school is consonant with the principles of learning which underpin the Primary School Curriculum. Additionally, the following principles for the use of ICT in the curriculum should be considered:

• The integration of ICT in the Primary School Curriculum should be directed toward enhancing teaching and learning

• The development of ICT skills should be embedded in learning objectives in the Primary

School Curriculum

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• planning for ICT use should be at school level and should address key issues including the use of ICT for children with special needs, equality of ICT access for all children, and health and safety when using ICT

• The role of the teacher in planning, supporting, and assessing children's learning with ICT is central to the effective integration of ICT across the Primary School Curriculum

• Co-operation between home and school can facilitate the development of a common understanding about the use of ICT as a tool for lifelong learning.

C. ICT in Upper Primary & Secondary Stages:

Values:

Values guide decisions about curriculum and support students, teachers, parents, care takers and the community. The shared values are:

• Connectedness - developing a sense of community through friendship, care, compassion,

• Cooperation, acceptance, belonging and sharing

• Resilience - developing self-confidence and self-respect, optimism, perseverance and wellbeing

• Achievement - attaining success, pursuing excellence and being proud of personal achievement

- Creativity valuing original ideas and demonstrating enterprise and innovation.
- Integrity acting honestly, ethically, and consistently

• Responsibility - accepting individual and collective responsibility and contributing to sustainable community development

• Equity - developing tolerance, respecting difference and encouraging distinctiveness.

Purposes:

The shared purposes are that all students are learning to:

- learn
- live full, healthy lives
- relate, participate and care
- act ethically
- create purposeful futures, and
- think, know and understand.

Goals:

The shared goals are that they:

- are able to reason, question, make decisions and solve complex problems
- are able to create, communicate and convey ideas clearly and confidently
- have a positive vision for themselves and their future

• are well prepared to participate actively in our democratic community and as global citizens

• Can understand science and technology and make thoughtful decisions about their application.

Performance criteria:

Performance criteria are the core assessable aspects of learning and identify the typical achievement expected by students at each standard. Each performance criteria is described in detail in the ICT standards.

Performance criteria describe what students can typically do at each standard.

There are a total of eight performance criteria for the ICT Cross Curricular Framework, with two for each strand as described in the table below:

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Ξ.	CIIOO	T.C.

Strand	Performance criteria
Inquiring with ICT	1. Inquire and become critical information
	consumers
	2. Inquire using appropriate strategies and tools
Creating with ICT	3. Create, edit and share information and ideas
	4. Follow recognized conventions to express
	ideas and information
Communicating with ICT	5. Express identity, communicate appropriately
	and maintain safety and privacy
	6. Contribute to and learn from others
Operating ICT	7. Use recognized procedures to maintain a
	secure, safe and efficient ICT environment
	8. Understand how ICT components and
	systems are used to store and retrieve
	information

Teaching ICT:

Teaching for learning:

High quality teaching has a significant impact on student learning and achievement. Effective teachers of ICT:

- embed ICT into their daily routines
- build student ICT skills
- establish and maintain engaging, safe and challenging learning environments
- make learning fun, relevant and personal for all students
- understand the needs of learners and know how learning best occurs
- teach for understanding and make relevant connections across curriculum areas
- have high and achievable expectations of student achievement
- express clear values and purposes for education and learning in ICT
- design interesting, motivating and rewarding learning experiences
- build independent, self-regulated learners
- explicitly focus on thinking skills including inquiry and reflection
- explicitly teach literacy and numeracy skills
- use a diversity of teaching strategies
- critically reflect on their practice
- innovate in the classroom and collaborate with peers
- contribute to the learning of others beyond the classroom and school
- use ICT in their teaching, assessment and professional learning
- establish and nurture effective partnerships with parents and the school community

- use ICT as a set of tools for improving outcomes across the curriculum
- use assessment to improve student learning
- use assessment to inform their teaching
- establish and use networks for learning, teaching and assessing
- demonstrate a commitment to ongoing professional learning.

D. Cross-curricular perspectives

ICT in curriculum areas:

The goal of ICT in the curriculum in all but specialist IT courses is to use the technology as a key tool in all students' curriculum area-based learning. Most ICT knowledge, skills and understanding are developed and used in more than one curriculum area. For example, the knowledge and skills required to use spreadsheets to manipulate data is similar whether using it within Vocational and Applied Learning or Mathematics-numeracy. Common underlying principles are required for evaluating sources in a historical, literary or scientific inquiry. Skills that students develop in locating, accessing and evaluating appropriate resources in Society and History, Science or English-literacy are used in all areas of the curriculum and in students' everyday lives.

ICT in the Arts:

Students use ICT in order to create & record and revisit arts products, events and performances. They express their own ideas and communicate with others. Students use ICT in all arts forms and increasingly in new arts forms such as multimedia.

ICT supports reflection and communication, the interpretation, appraisal, analysis and creation of arts works and deeper examination of the place of the Arts in society.

ICT in English-literacy:

ICT in English-literacy helps students understand how people communicate using different modes. They develop skills in communicating, accessing, organizing and structuring information to refine ideas, collaborate and improve understanding.

ICT in Health and wellbeing:

In Health and wellbeing students use ICT to investigate issues and develop their understanding of physical, mental, emotional, social and spiritual health. They use ICT as tools to record practices such as movement, diet and behaviors, and to analyze, present and transform collected data and information. ICT are used as reflection and communication tools, to participate in local and global collaborative learning communities and are used to present and evaluate information to others.

ICT in Mathematics-numeracy:

Students use ICT in Mathematics-numeracy to develop skills in problem solving, communication and reasoning. They identify information needs and access information; organize, manipulate and transform data; and develop personal interpretations.

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They apply mathematical and numerical skills and concepts and use ICT to generate and test hypotheses for accuracy and bias. They learn to communicate mathematical theories, findings and understanding.

ICT in Science:

In Science, the use of ICT enables students to acquire, evaluate, record, manipulate, integrate and communicate data and information, collected from their own original investigations or inquiries and that are accessible in scientific or other texts. It also supports student collaboration and communication in local and global scientific communities. ICT is of particular value in the acquisition of original scientific data. It allows measurements to be recorded and analyzed more precisely. Specifically designed science software can support students in developing an understanding of science concepts or in carrying out modeling and simulations for situations that it are not feasible to investigate experimentally (e.g. change in a population over a number of generations). In Science students use ICT to access an increasing range and quantity of data and information. They learn to evaluate information for authenticity, credibility, authority, validity, bias, accuracy and currency.

ICT in Society and History:

Students use ICT in Society and History to examine and evaluate information, develop justifications for value positions and beliefs, discuss issues and deepen their interpretations of issues and events. Through information and networks, students inquire, think critically, collaborate, make decisions and take action on significant issues. ICT provide students with an increasing range of information to develop their knowledge of the chronology and meaning of particular events and issues. Emerging geo-spatial technologies (e.g. GIS) enable highly systematic study of events, trends and issues.

ICT and thinking skills

ICT supports the development of a wide range of thinking skills. Students use ICT to present and access information, as a tutor, as a tool and as a support for dialogue and collaboration. Effective use of ICT for improved thinking skills depends on appropriate selection of ICT for a learning purpose, careful planning and genuine opportunities for students to apply ICT in different contexts for learning in and beyond the classroom.

Scope and sequence

A scope and sequence is a curriculum plan describing teaching content and the order in which it is taught. When planning or mapping curriculum in ICT, consideration be given to integrated learning sequences with ICT used as key teaching, learning and assessing tools. Planning or mapping curriculum in this way assists schools and teachers to:

- use ICT to enrich all subjects
- enable students to negotiate and personalize their learning
- enable students, parents and the community access to the ICT cross curricular

framework

- create yearly plans for grades or classes according to school need
- build conceptual understanding across grades or classes
- ensure ICT skills are built
- avoid repetition of content and make learning contextual and personalized
- effectively organize time, resources and facilities.



E. Curriculum Content: Grade I

TOPIC: THEORY

TOPIC	OBJECTIVES Pupils should be able to:	CONTENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Rules and requirements of the computer laboratory.	State the basic rules to be observed in the computer laboratory Name the basic environmental conditions and security of the computer laboratory	The basic rules. Environmental conditions such as ventilation. Security of and in the computer room.	Formulating the rules as a class. Discussing the importance of environmental conditions and security.
Introduction to computers.	Identify computer hardware	Hardware: Unit Keyboard, Mouse, Screen, Speakers and Printers.	Pointing at and naming components of the computer. NB: Teacher to restrict to available equipment.

TOPIC: BASIC SETTINGS AND FILE MANAGEMENT

ΤΟΡΙΟ	OBJECTIVES Pupils should be able to:	CONTENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Use of a mouse	Use the mouse	Mouse movement and control	Moving the pointer within diagrams/shapes Clicking on the left mouse button Playing games using the mouse
Desktop features	Use a drawing program	The drawing program icon e.g. paint	Pointing at the drawing icon using the mouse

TOPIC: WORD PROCESSING

ΤΟΡΙΟ	OBJECTIVES Pupils should be able to:	CONTENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Loading a word processor program	Load a word processor using an icon.	Word processor	
Word processing features	Insert Auto shapes and pictures using the mouse	Auto shapes and pictures	Creating a picture story using several auto shapes and pictures
Keyboard keys and their uses.	Identify basic keyboard keys. Use the basic keyboard key.	Basic keyboard keys such as enter, backspace, caps lock and spacebar.	Pointing at and naming the basic keys. Playing games using the keyboard keys
Typing	Type letters of the alphabet in both lower and upper case. Type simple words and numbers	Letters of the alphabet. Simple words and numbers 0-50.	Writing simple words and numbers 0 to 50.
Text selection	Select text.	Shift and arrow keys.	Blocking text using the keyboard
Formatting text	Block text using the keyboard Bold text. Color text.	The bold icon. The font color icon.	Clicking the bold button Changing color of text.

TOPIC: PRESENTATIONS

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING ACTIVITIES
	to;		AND NOTES
Drawing	Draw pictures of their	Drawing	
	choice	program e.g.	
		paint	
Loading a	Open and close a		Manipulating the mouse to
presentation /drawing	drawing program		produce a drawing. Painting
program			the drawings
			Closing a drawing programs

Grade II

TOPIC: THEORY

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Rules and	State the basic rules to	The basic rules	Formulating the rules
requirements for the	be observed in the	Environmental	as a class
computer laboratory	computer laboratory	conditions such as	
	Name the basic	ventilation	Discussing the
	environmental		importance of
	conditions and	Security of and in the	environmental
	security of the	computer laboratory	conditions and
	computer laboratory		security
Introduction to	Identify computer	Hardware: System	Pointing at and
computers	hardware	Unit Keyboard,	naming components
		Mouse and Screen,	of the computer
		Speakers and Printers	NB : Teacher to
			restrict to available
			equipment

TOPIC: BASIC SETTINGS AND FILE MANAGEMENT

ΤΟΡΙΟ	OBJECTIVES Pupils should be able to:	CONTENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Desktop features	Identify icons by	Names of icons	Pointing at specific
	name		program icons

TOPIC: WORD PROCESSING

ΤΟΡΙΟ	OBJECTIVES Pupils should be able to:	CONTENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Loading and exiting a word processing program	Load and exit a word processor Type numbers and simple words	Letters of the alphabet, words, short sentences and numbers	Writing letters of the alphabet Writing numbers 0 to 100 simple words and

	Type simple sentences		sentences
Basic keyboard keys	Identify basic	Basic keyboard keys	Pointing at and
and their uses	keyboard keys	such as enter,	naming the basic keys
	Use the basic	backspace, caps lock,	Playing games using
	keyboard key	delete and spacebar	keyboard keys
		-	Applying knowledge
			learnt on basic
			keyboard keys
Opening, Saving and	Identify documents in	Default location (My	Launching a program,
Exiting	a folder	Documents)	retrieving a document
	Retrieve documents	Close button	Saving and closing a
	from a folder		document
	Close a document		Exiting a program
	Exit a program		using the close button
Formatting text	Highlight	Shift and arrow keys	Highlighting text
_	Bold text	The bold icon	Bolding text
	Color text	The font color icon	Changing color of text
			NB Emphasis should
			be on primary colors
Word processing	Insert auto shapes and	Auto shapes and	Creating a picture
features	pictures using the	pictures	story using several
	mouse		auto shapes or
			pictures

TOPIC: PRESENTATIONS

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		
	to;		ACTIVITIES AND
			NOTES
Drawing	Draw and color in	Drawing program	Drawing and coloring
	shapes	icon	in shapes
Loading a presentation/ drawing program	Open and close a drawing program	Drawing program	Using the mouse to produce a drawing Closing a drawing program

Grade III

TOPIC: THEORY

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Rules and	Explain the basic	The basic rules.	Discussing the need
requirements for the	rules to be observed in	Environmental	for rules in the
computer laboratory.	the computer	conditions such as	Computer room.
	laboratory.	ventilation.	(n)
			Discussing the
	Name the basic	Security of and in the	importance of
	environmental	computer laboratory.	environmental
	conditions and		conditions and
	security of the		security.
	computer laboratory.		
Introduction to	Identify computer	Input, output and	Drawing and labeling
computers.	hardware and	storage devices:	components of the
	software.	Hardware:	computer.
		System Unit,	Differentiating
		Keyboard, Mouse and	between input and
		Screen, Speakers and	output devices.
		Printers,	NB: Teacher to
		Storage devices:	restrict to available
		floppy disks, flash	equipment.
		disk/memory stick	Identifying the
		compact disk (CD),	program in use.
		digital video disk	
		(DVD).	
		Software	

TOPIC: BASIC SETTINGS AND FILE MANAGEMENT

ΤΟΡΙϹ	OBJECTIVES Pupils should be able to:	CONTENT	SUGGESTED LEARNING ACTIVITIES AND
			NOTES
Starting up the	Switch on the	Power buttons	Identifying power
computer	computer		buttons

			Turning on the
Starting program	Start program	Start button	Using the start button
		Start menu	Selecting options
			from menu
Working with	Close windows using	Close button	Using the close button
windows	the close button		

TOPIC: WORD PROCESSING

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Loading a word	Load and exit a word	Word processor	Opening and closing a
processor program	processor program	program	word processor
	using a starter menu.		program
Word processing	Insert and color auto	Auto shapes and	Coloring auto shapes
features	shapes and pictures	pictures	and picture
	using the mouse		
Typing	Type sentences	Sentences.	Writing sentences and
		Four Special	special characters.
		Characters i.e.!?,.	
Basic keyboard keys	Identify basic	Basic keyboard keys	Pointing at and
and their uses.	keyboard keys.	such as enter,	naming the basic
	Use the basic	backspace, caps lock,	keys.
	keyboard key.	delete and spacebar.	Playing games using
			keyboard keys.
			Applying knowledge
			learnt on basic
			keyboard keys
Word processing	Identify the title bar	Title bar and task bar	Using the title bar and
setting	and task bar		task bar.
Formatting text	Select/highlight text	Shift and arrow keys	Blocking text
	Block text.	and mouse	Bolding text.
	Bold text.		Changing color of
	Color text.	The bold icon.	text.
	Underline text	The font color icon.	Underlining text
		The underline icon	

TOPIC: PRESENTATIONS

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to;		ACTIVITIES AND
			NOTES
Drawing	Open a drawing	Drawing program	Opening the drawing
	program;	icon, shapes, drawing	program using
		and pictures	shortcut

Combine shapes and drawings;	Drawing according to teachers instructions Typing and clicking
Save shapes and drawing.	the save shortcut



Grade IV

TOPIC: THEORY

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Rules and	Explain the basic	The basic rules	Discussing the need
requirements for the	rules to be observed in	Environmental	for rules in the
computer laboratory	the computer	conditions such as	Computer room.
	laboratory.	ventilation	Discussing the
	Name the basic	Security of and in the	importance of
	environmental	computer laboratory.	environmental
	conditions and		conditions and
	security of the		security.
	computer laboratory		
Introduction to	Identify computer	Input, output and	Drawing and labeling
computers.	hardware and	storage devices:	components of the
	software.	Hardware:	computer
		System Unit,	Classifying input and
		Keyboard, Mouse and	output devices
		Screen, Speakers and	Listing the types of
		Printers,	storage devices
		Storage devices:	NB: Teacher to
		Floppy disks, flash	restrict to available
		disk/memory stick	equipment
		compact disk (CD),	Identifying the
		digital video disk	Software in use by
		(DVD).	name and function
		Software	

TOPIC: BASIC SETTINGS AND FILE MANAGEMENT

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Starting up and	Switch off the	Start menu	Identifying power
shutting down	computer	Power buttons	buttons
			Turning off the

			computer
Desktop features	Use the start button	Start button	Identifying the start
	Use a mouse to start a	Program using a	button
	program	mouse	Starting a program
			using a mouse
Printing using	Generate a hard copy	Print process	Printing using the
shortcut			print icon

TOPIC: WORD PROCESSING

ТОРІС	OBJECTIVES	CONTENT	SUGGESTED
10110	Pupils should be able		LEARNING
	to:		ACTIVITIES AND NOTES
Loading a word	Load a word using	Word processor	Opening and closing a
processor program	start menu	program	word processor
	Exiting a program	Close icon and close	program
	using the close icon	command in the file	Exiting a program
	and close command in the file menu	menu	using the close button
Word processing	Insert and color auto	Auto shapes and	Using the mouse to
features	shapes and pictures	pictures	color auto shapes and
	using the mouse		pictures
Word processing	use the menu bar and	Word processing	Manipulating the
setting	scroll bars	screen: menu bar and	menu and scroll bars
		scroll bars	
Typing	Type a short	Short paragraphs	Typing short
	paragraph	Punctuation	paragraphs and
		Four Special	inserting correct
Taxt solution and	Salaat/highlight taxt	Shift and arrow kove	Plocking toxt
correction	using the shift and	and mouse	Frasing sentences
concetion	arrow keys and mouse	Backspace and delete	from right to left and
	Delete sentences	kev	from left to right
Basic keyboard keys	Identify numeric	Short paragraphs that	Plaving games using
and their uses	keyboard keys	integrate the numeric	keyboard keys
	5	keys	5 5
	Use the numeric		
	keyboard key		
Opening and Saving	Identify documents in	Default location (My	Launching a program
	a folder	Documents)	Retrieving a
	Retrieve documents	Double clicking the	document by double
	from a folder	document in the	clicking it in the
	Save a document in	Ioider	Ioider
	Class a document	Saving documents	Using the save and
	Close a document	Close button	file menu
			Saving and closing a
			document

Formatting text	Block text	The bold icon	Blocking text
	Bold text	The font color icon	Bolding text
	Color text	The underline icon	Changing color of text
	Underline text	Alignment icons	Underlining text
	Align text	Font size and type	Changing text
	Apply font size and	icons	alignment
	type		Aligning text
			Changing font size
			and text
			Using the scroll bar to
			see more fonts
Editing text	Copy and paste text	Copy and paste	Copying and pasting using the Edit command menu Copying and pasting using the icons NB Activities to focus first on the Edit command menu before shortcuts are
			introduced

TOPIC: PRESENTATIONS

TOPIC	OBJECTIVES Pupils should be able to;	CONTENT	SUGGESTED LEARNING ACTIVITIES AND
Loading a presentation program	Load a presentation program using a mouse;	Presentation program	NOTES Opening a presentation program Creating a blank presentation Typing basic text
Drawing	Open a drawing program; Combine shapes and drawings	Drawing program icon Saving drawings Shapes, drawings and pictures	Drawing according to instruction Using the short cut to save drawings

Grade V

TOPIC: THEORY

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Rules and	Explain the basic	The basic rules	Discussing the need
requirements for the	rules to be observed in	Environmental	for rules in the
laboratory	the computer	conditions such as	Computer laboratory
	laboratory	ventilation	Discussing the
	Name the basic	Security of and in the	importance of
	environmental	computer laboratory	environmental
	conditions and		conditions and
	security of the		security
	computer laboratory		
Introduction to	Identify computer	Hardware:	Drawing and labeling
computers/ Computer	hardware and	Input and output:	components of the
hardware and	software	System Unit (CPU),	computer
software		Keyboard, Mouse and	Classifying input and
	List advantages and	Screen, Speakers and	output devices
	disadvantages of	Printers,	Listing the types of
	using computers	Storage devices:	storage devices
		floppy disks, flash	NB: Teacher to
		disk/memory stick,	restrict to available
		compact disk (CD),	equipment
		digital video disk	Identifying different
		(DVD)	system and
		Software:	application software
		System and	Discussing the
		application software	advantages and
		Advantages and	disadvantages of
		disadvantages of	using computers
		using computers	

TOPIC: BASIC SETTINGS AND FILE MANAGEMENT

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Starting up and	Select options for	Shutting down options	Applying different
shutting down	shutting down		options for shutting
	computers		down

	D 0 1:00	D 11 1.1.	D1 · ·
Use of mouse	Perform different	Double clicking	Playing games using
	tasks by double		the mouse
	clicking the mouse		
Settings	Adjust date and time	Date and time settings	Checking current date
	settings	Task bar functions	and time
			Changing date and
	Identify Task bar and		time settings using
	its function		shortcut
			Minimizing and
			restoring using mouse
My computer icon	Identify drives and	A C and D drives	Opening C drive
wry computer reon	folders on the	ri, C, and D drives	Distinguishing folders
	computer		from files
Deleting files and	Delete files and	C drive files and	Deleting files and
feldere	foldere from the C	C drive mes and	feldere
folders	folders from the C	Tolders	folders
D 1.1	drive	D 11''	
Recycle bin concept	Identify the recycle	Recycle bin icon	Opening recycle bin
	bin and its uses		Closing recycle bin
Desktop features	Use short cut menu	Desktop displays	Applying desktop
	for desktop displays	using shortcut menu	displays using
			shortcut menu
Printing	Print documents using	Printing	Applying the printing
	the shortcut		technique using an
			icon
Screen savers	Set screen savers on	Screen savers	Selecting and
	the monitor		applying screen savers
Loading a word	Load a word	Word processor	Using the start menu
processor program	processor using start	Close button	to load a word
1	menu		processor
	Close a document		r
	Exit a program		
	DAIL a program		

TOPIC: WORD PROCESSING

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Word processing	Insert symbols,	Symbol, pictures and	Selecting symbols and
features	pictures and text	text	pictures
	Design patterns using	Patterns	Identifying patterns
	auto shapes;		
Typing	Type a paragraph	Short paragraphs	Typing short
		Punctuation	paragraphs
		Special Characters!?,	
		% \$ ()	
Text selection and	Select/highlight text	Shift and arrow keys	Blocking text
correction		and mouse.	Erasing sentences
	Delete sentences	Backspace and delete	from right to left and

		key	from left to right
Keyboard keys and	Identify numeric	Short paragraphs that	Playing games using
their uses	keyboard keys	integrate the numeric	keyboard keys
	Use the numeric	keys	
	keyboard key		
Saving and opening	Open, save and close	Open, save and close	Opening, saving and
documents	documents in the hard	commands in the file	closing a document
	disk	menu	
Formatting Text	Block text	The bold icon	Bolding text
	Bold text	The font color icon	Changing color of text
	Color text	The underline icon	Underlining text
	Underline text	Alignment icons	Aligning text
	Align text	Font size and type	Changing font size
	Apply font size and	icons	and text
	type		
Editing Text	Copy and paste text	Copy and paste	Copying and pasting
		Cut and paste	using the Edit
	Move text		command menu
			Copying and pasting
			using the icons
			Cutting and pasting
			using the Edit
			command menu
			Cutting and pasting
			using the icons
	OTTO		NB Activities to focus
			first on the Edit
			command menu
			before shortcuts are
			introduced
Word Processing	Set word processing	I ool bars and scroll	Using scroll bars to
Setting	screen using tool bars	bars	tind information
	and scroll bars		Applying the tool bars
			to access information

TOPIC: PRESENTATIONS

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to;		ACTIVITIES AND
			NOTES
Loading a presentation program	Load a presentation	Presentation program	Viewing of different available slides Adding text to a slide Saving the presentations
Drawing	Save drawings	Drawings	Saving the drawings
Opening and closing a	Open and close	Presentations	Typing in the file
presentation	existing presentation		name

			Saving in the correct folders
Formatting text	Format text on slides	Slides, font, color and	Changing the font size
	Apply font, color and	size	Changing the text
	size on text		color

TOPIC: SPREADSHEETS

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to;		ACTIVITIES AND
			NOTES
Introduction to a	Describe the	Spreadsheet structure:	Explaining what
Spreadsheet	spreadsheet structure	Columns, rows,	constitutes a
		column headings, row	spreadsheet
	Create a spreadsheet	headings, cells, cell	Explaining the
		names, cell pointer,	difference between
		sheet tabs, navigating	workbooks and
		in the spreadsheet	worksheets
			Creating a
			spreadsheet-
			spreadsheet structure,
			cursor manipulation
Spreadsheet	Set width	Width adjustments	Formatting a
Formatting	adjustments;	Formatting cells and	spreadsheet
	Insert formatting cells	page breaks	
	and page cells		
Saving and Opening	Open, save and close	Open, save and close	Opening, saving and
Documents	documents in the hard	commands in the file	closing using the file
	disk	menu	menu

GRADE VI

TOPIC: THEORY

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
			NOTES
Rules and	Explain the basic	The basic rules.	Discussing the need
requirements for	rules to be observed in		for rules in the
computer laboratory	the computer		Computer laboratory
	laboratory.		and the consequences
			of breaking the rules.
Introduction to	Identify different	Different types of	Compare the different
computers/ Computer	types of computers	computers:	types of computers.
hardware and		Laptops, palmtops,	Entering data using
software	Identify computer	notebooks,	the input devices.
	hardware and	PC, mainframe,	Discussing the
	software.	supercomputer.	suitability in the
		Hardware:	application of
	Identify computer	Input devices:	different types of
	viruses and their	Keyboard, Mouse	storage devices.
	causes	Output devices	NB: Teacher to
	List advantages and	Speakers, Printers and	restrict to available
	disadvantages of	Screen,	equipment.
	using computers	Storage devices:	Discussing the
		Floppy disks, flash	problems resulting
		disk/memory stick	from computer
		compact disk (CD),	viruses.
		digital video disk	Discussing the
		(DVD).	advantages and
		Software:	disadvantages of
		System and	using computers
		application software	
		Computer viruses,	
		causes and effects	
		Advantages and	
		disadvantages of	
		using computers	
Information	Identify the benefits	Internet and e-mail.	Demonstrating how to
Communication	and limitations in the		access internet.

Technology (ICT)	use of Internet and	Sending and receiving
	email.	e-mail

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TOPIC: BASIC SETTINGS AND FILE MANAGEMENT

TOPIC	OBJECTIVES	CONTENT	SUGGESTED
	Pupils should be able		LEARNING
	to:		ACTIVITIES AND
	D ¹ · · · · · · ·		NOTES
Shutting down options	Distinguish restart	Shut down windows	Restarting the
	from shut down		computer
Use of mouse	Perform tasks using	Use of mouse right	Identifying tasks
	the mouse right	clicking	which require the use
	clicking.		of mouse right
		x	clicking.
Desktop features	Rearrange icons	Icons	Arranging icons by
	Use short cut menu	Desktop displays	name, date, size
	for desktop display.		Using auto arrange
		~ .	option
Screen savers	Change settings of	Screen saver settings	Selecting screen
	screen savers on the		savers
<u> </u>	monitor		
Settings	Adjust time, date and	Date, time and	Checking current date
	volume using short	volume settings	and time changing
	cut		date and time settings
	Adjust date	<u> </u>	using shortcut
My computer 1con	Delete files and folder	C drives	Inserting storage
	from hard disk.	Files and folders	media in appropriate
	Open C drive	Deleting files and	drives
	Create folders/files	folders	Opening drives
	Search for		
D 1 1	files/folders	D 1 1 1 1 1	
Recycle bin	Display and empty the	Recycle bin icon	Opening recycle bin
	recycle bin		Emptying recycle bin
Printing	rint using shortcut	Printing	Using the shortcut
			command to print

TOPIC: WORD PROCESSING

ΤΟΡΙϹ	OBJECTIVES Pupils should be able to:	CONTENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Loading a word processor program	Access word processing using start menu and icon.	Word processor icon	Opening word using both mouse and keyboard
Word processing features	Insert symbols and pictures Insert text	Symbols and pictures Auto shapes	Creating patterns using auto shapes

	Design patterns using		
XXX 1 ·	auto shapes	· · · ·	X1
Word processing	Use tool bars and	Word processing	Identifying tool bars
setting	scroll bars	Screen: tool bars and	and scroll bars
		scroll bar	
Typing	Type compositions	Punctuated	Typing compositions
	and letters	compositions and	and letters.
		letters	
		Special Characters	
		! ? , .; " " () % \$ # @	
		`*<>	
Text selection and	Select text using the	Shift and arrow keys	Blocking text
correction.	shift and arrow keys	and mouse	Erasing sentences
	and mouse	Errors: spellings and	from right to left and
	Correct spellings and	grammar.	from left to right.
	grammar		N.B. Non English and
			scientific words are
			treated as errors by
			the computer. Teacher
			is to use discretionary
			powers. Correction of
			errors is taught
xx 1 11 1			progressively.
Keyboard keys and	Identify functions	Keyboard keys and	Using QWERTY in
their uses.	frequently used.	their uses	document
	Manipulate the entire		manipulation and
	keyboard keys.		production.
Saving and opening	Open commands in	Opening, saving and	Storing documents in
documents	the file menu	closing a document in	different media
	Retrieve documents	the hard disk (C-	Retrieving a
	saved	drive) and other	document by using
	Save documents in	media	the open command in
	hard disk and other	Open, save and exit	the Open dialogue
	media	commands	box
			Opening documents in
	D 114 4	TT1 1 1 1 .	different media
Formatting Text	Bold text.	The bold icon.	Bolding text.
	Color text.	The font color icon.	Changing color of
	Underline text	The underline icon	text.
	Align text	Augmment icons	A ligning text
	Apply fold size and	Font size and type	Changing fort size
	Space lines	Line specing	and text
	Apply Word Art	Word Art	and text
	Apply word Art	wold Aft Drint outs	Applying word art
	rim documents	rint outs	Applying word art
Editing Tout	Cut and pasts taxt	Cutting and pasting	Conving and posting
Eating Text	Cut and paste text	Conving and pasting	using the Edit
1	I CODV AND DASIE IEXT	LODAIDS SUID DARING	USING THE FUIL

		Peace Peace
Change case Find and replace words	Lower and upper case Replacing words	command menu Copying and pasting using the icons Cutting and pasting using the Edit command menu Cutting and pasting using the icons <i>N.B. Activities to</i> <i>focus first on the Edit</i> <i>command menu</i> <i>before shortcuts are</i> <i>introduced.</i> Changing lower to upper case and vice versa Finding words Replacing words

TOPIC: PRESENTATIONS

TODIC	ODUCCENTE	CONTERNIE	QUOCECTER
Торіс	OBJECTIVES Pupils should be able to;	CONFENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Loading a	Load a presentation	Presentation program	Loading a
presentation program	program		presentation
Drawing	Add drawings	Drawings	Inserting drawing and adding color to pictures
Slide creation	Create presentations using more challenging slides Insert pictures to a presentation Save presentations	Presentations using slides Pictures	Creating presentations Saving presentations
Opening and closing presentation	Open and close existing presentations	Open and save	Opening and closing existing presentation
Formatting text	Format text on slides Apply font, color, type and size.	Font, color, type and size	Changing font, color, type and size.
Slide show	View a slide show Add transition effects Apply design templates Animate slides Present a slide show Print slides	Slide show Transition: normal view and slide shorter view Design templates Animation effects: Preset and custom Slide show	Viewing a slide show Applying transition effects on slide Selecting a transition effect from the drop down list. Choosing the speed of the transition. Selecting

Presentation	objects which is to be
Printing	animated
	Selecting slides to be
	printed

TOPIC: SPREADSHEETS

ΤΟΡΙΟ	OBJECTIVES Pupils should be able to;	CONTENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Introduction to a spreadsheet	Identify functions of spreadsheets Create a Spreadsheet	Basic spreadsheet concept Spreadsheet structure Spreadsheet navigation and simple functions Spreadsheet structure: Columns, rows, column headings, row headings, cells, cell names, cell pointer, Sheet tabs, navigating in the spreadsheet, select all button.	Explaining what constitutes a spreadsheet. Explaining the difference between workbooks and worksheets Creating a spreadsheet- spreadsheet structure, cursor manipulation
Saving and opening documents	Open, save and close documents	File retrieval Saving Closing Exiting	Retrieving, saving, closing, and exiting a file in a specific location such as 'My Documents'.
Spreadsheet formatting	Insert rows and columns Adjust rows and columns Preview documents before printing	Insert :Rows, columns, Worksheet Delete :Rows, columns, Worksheet Adjust row height, column width Rename a Worksheet Block/highlight specific cells Preview and printing	Editing a spreadsheet by inserting and deleting rows and columns. Adjusting row height and column width. Blocking/highlighting specific cells, such as TOTAL's, use the 'fill color' button. <i>Preview document</i> <i>before printing a</i> <i>must.</i>
Charts and graphs	Create a chart/graph	Column and bar chart/graph	Creating a bar and column chart/graph using information from a created spreadsheet. Using the insert- chart menu

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TOPIC: INFORMATION COMMUNICATION TECHNOLOGY

ΤΟΡΙϹ	OBJECTIVES Pupils should be able to;	CONTENT	SUGGESTED LEARNING ACTIVITIES AND NOTES
Internet	Set internet Make a connection using shortcut Disconnect the internet connection Install security features	Internet icon Web sites Search engines Security issues	Opening the internet Opening different websites Typing/Selecting search engine Entering search criteria/subject Disconnecting using shortcut
e-mail	Set e-mail account Identify and open mailbox Create mail Send mail Reply mail Opening in-box Delete message	e-mail account Mailbox e-mail message Inbox deleting	Opening the mailbox Composing mail Sending mail Opening inbox Replying to mail Signing out

Grade VII

Strand I: Inquiring with ICT

Performance	Objectives: Stage 1	Objectives: Stage 2
criteria		
Inquire and	 use subject directories 	• use a range of search
become critical	and describe the	methods and justify the
information	difference between a	best one for a given
consumers	subject directory and a	task
	search engine	• use an online
	create detailed	bibliography composer
	bibliographies	• assess the relevance of
	• validate the content of	an information source
	some websites to	to a particular inquiry
	check for accuracy	
Inquire using	• reflect on how a	 discuss the negative and
appropriate	specific educational	positive consequences
strategies and	game/learning object	of choices made while
tools	can increase	playing an online
	understanding	learning game
	 interact in a favored 	 exchange reflective
	online network	feedback in response to
	routinely for research	evolving web content
	• reflect on the results	such as blogs
	of own solutions	• use simulation tools to
	applied to a simulation	solve problems based
		on 'real-world'
		scenarios

Strand II: Creating with ICT

Performance	Objective: Stage I	Stage II
criteria		
Create, edit and	• present a digital	 analyze how ICT tools
share information	product to an audience	were used to influence
and ideas	and evaluate it	audience within a digital
	according to their	product
	feedback	 use advanced features
	• integrate a range of	of software to create a
	ICT tools to plan,	digital product

	create and present a	 manage and edit original
	digital product	source materials such
	• edit sound, graphics,	as photos and sound
	text and images for	files with software
	desired special effects	
Follow recognized	• analyze data within a	• create data
conventions to express ideas	spreadsheet,	Representations following
and information.	representing it in	recognized conventions
	alternative modes	maintain consistency of
	 demonstrate refined 	style within a digital product
	layout, style and	 seek and follow advice
	content e.g: insert	from intellectual property
	tables incorporating	guidelines
	borders and shading	-
	distinguish between	
	copyright and copy left	
	material and respect	(D)
	these protections	
	• -	

Strand III: Communicating with ICT

Performance	Objective: Stage I	Stage II
Express identity	• identify and consistently	• describe ethical and
communicate	follow online etiquette	unethical use of specific
appropriately and	(netiquette)	communication tools
maintain safety and	• aducate others about	• understand what other
maintain safety and	online atiquette	arima is and describe
privacy	(nationatta) and avalain	the immediate her on
	(netiquette) and explain	the impact it has on
	associated key terms	society
	such as flame wars and	• discuss issues relating
	cyber bullying	to online identity e.g it's
	• outline an appropriate	okay to assume an
	course of action such as	avatar identity in a
	'delete and ignore' in	game but not to
	response to	deceive others with a
	inappropriate messages	fake identity
	 present an appropriate 	
	identity when participating in	
	online networks	
Contribute to and	• collaborate locally and	collaborate to decide
learn from others	globally online, valuing	on, participate in,
	the contributions of	reflect on and share the
	others	outcomes of a suitable
	 send messages and files 	online exchange project
	to groups	• describe some types of
	 upload appropriate 	collaborative software
	material created with a	(groupware)
	digital device to an	applications outlining

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online space	when they are useful • compare how materials are stored, created, distributed and abaved
	distributed and shared
	with different devices

Strand IV: Operating ICT

Performance	Objective: Stage I Stage II	
criteria		
Use recognized procedures to maintain a secure, safe and efficient ICT environment	 implement a set of backup procedures for personal data use an application's 'Help' facility to identify an appropriate course of action for solving specific problems understand what ergonomic design is and why it is so important 	 state and justify school rules about data and software downloads identify what many ICT acronyms stand for and what they mean discuss ergonomic design
** 1	for ICT environments	
Understand how	• identify the function of	• implement a logical
ICT components	a file by its extension,	system of organizing
and systems are	e.gexe,.com and.dll all	personal files into folders and
used to store and	indicate programs	sub-folders
retrieve	• recognize an Operating	• differentiate between
information	System as managing	software types
	input, output,	• give a comprehensive
	processing and storage	account of a system's
	so that they all work	components
	together	
	• describe the	
	interrelationships	
	between a system's	
	main components	

Grade VIII

Strand I: Inquiring with ICT

Performance	Objective: Stage I	Stage II	Stage III
criteria			
Inquire and	 collect web based 	 collect, organize and 	• use the Internet as a
become critical	bookmarks relevant to	share web based	research tool,
information	inquiries	bookmarks	routinely seeking
consumers	• cite sources in a	 use preferred or 	information from a
	consistent manner	recommended citing	variety of websites
	throughout a research	and referencing	 cite references
	presentation	guidelines	consistently following
	• analyze 'hoax'	• evaluate the	agreed conventions
	websites	accuracy, credibility	 validate the
	and evaluate how	and currency of	credibility of
	convincing they are	information sources	information sources
Inquire using	articulate problem	 share, reflect on and 	 modify strategies
appropriate	solving strategies used	modify educational	and solve complex
strategies and	to successfully	game strategies for	problems when
tools	complete online	improved results	playing interactive
	learning games and	 demonstrate 	educational games
	challenges	intellectual integrity	 participate in an
	• interact as a member	within an online	online community
	of an online	community	such as a forum as an
	community to discuss,	 produce an inquiry 	inquiry strategy
	compare and	based simulation or	 demonstrate
	clarify ideas	game	effective use of a
	 demonstrate 		simulation tool
	effective decision		and discuss its
	making in a		application to 'real
	Simulation		world' contexts
	environment		
	and reflect on how		
	those decisions could		
	influence 'real-world'		
	scenarios		

Strand II: Creating with ICT

Performance	Objective: Stage I	Stage II	Stage III
Create, edit and share information and ideas	 identify the needs of a specific audience, manipulating digital tools to meet needs collaborate to create a multi-media presentation edit a digital product following advice from a source such as a digital editing online tutorial 	 entertain, influence or persuade a specific audience by presenting an original digital product to them analyze the use of ICT tools and roles of people involved in creating an effective multi-media presentation use advanced functions of editing software to refine 	 create digital products that inform, entertain, influence or persuade determine quality design specifications for an ICT product and follow the specifications to create a product use advanced editing functions to refine a digital product for desired effects
Follow recognized conventions to express ideas and information	 create a variety of data representations that are functional and correctly formatted layout text and graphics effectively in digital products describe different forms of Intellectual Property e.g. copyright, copy left, patents, trademarks 	 productions present a digital product that illustrates, analyses and reports data produce digital products that display a broad and refined use of conventions identify why people may seek a Creative Commons license 	 collect, analyze, represent, organize and manage data with digital tools create digital products that illustrate a broad use of conventions appropriate to text type demonstrate understanding of intellectual property and copyright laws

Strand III: Communicating with ICT

Performance	Objectives: Stage I	Stage II	Stage III
criteria			
Express identity,	 share materials 	 promote and 	 identify appropriate
communicate	responsibly respecting	demonstrate	codes of conduct for
appropriately and	self and others	application	ICT communications
maintain safety and	 demonstrate an 	of netiquette protocols	• outline the forms
privacy	ethical awareness of	 raise awareness 	that cyber crime can
	cyber crime by	about the	take and describe how
	reflecting on and	potential harm cyber	to avoid being a
	discussing cyber	crime can cause and	victim of it
	crime as reported in	promote protection	 establish and
	the media	messages	maintain appropriate
	 discuss how online 	 analyze and evaluate 	online identities to

	identity might differ	networking websites	broaden social,
	from one's physical	for their ability to	intellectual and
	persona	protect user identity	extra-curricular
			networks
Contribute to and	 understand how to 	 demonstrate 	• contribute to the
learn from others	design, create, draw	increased	learning of others and
	participants to and	understanding from	learn from others in
	moderate forums	participating in an	online exchange
	• trial a range of	online exchange	projects
	collaborative software	project	 enhance group work
	(groupware) tools for	 select and use 	by
	communicating with	appropriate	using a range of
	peers	collaborative software	collaborative software
	• use devices ethically	(groupware) solutions	 demonstrate
	to create, distribute	for a purpose	awareness
	and share materials	 pose concerns and 	of the latest
		opportunities when	technology
		discussing the	news and emerging
		potential	devices
		impact of emerging	
		technologies on	
		society	

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Strand IV: Operating ICT

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Performance criteria	Objective: Stage I	Stage II	Stage III
Use recognized procedures to maintain a secure, safe and efficient ICT environment	 describe potential threats to the security of systems and data recognize that many ICT issues can be divided into hardware, operating system or application issues predict trends in the impact of ICT on health and lifestyle 	 describe some data and system protection measures such as firewalls provide advice on preventing ICT problems and upgrading systems promote best practice in occupational health and safety (OHS) 	 demonstrate understanding of network security risks, protection and prevention strategies apply problem solving and troubleshooting progressions for the efficient operation of tools identify occupational health and safety concerns and solutions for ICT environments
Understand how	• interpret file	• understand how to	• maintain files in a
ICT components	addresses	compress and	clear,
and systems are	as comprising strings	decompress files and	logical structure
used to store and	of drives, folders,	identify why this may	demonstrating
retrieve	servers and/or	be necessary	understanding of file
information	network shares	• discuss	size, type and naming

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 understand that 	interoperability	conventions
connected devices	issues relating to	• understand the field
often require device	hardware, software,	of ICT sufficiently to
drivers to be added to	systems and networks	be an effective
the operating system	• describe a type of	consumer of ICT
to function as	network architecture	goods and services
predicted	such as a local area	• demonstrate
• understand	network (LAN)	understanding of basic
'firmware',	· · · ·	network concepts
where it resides		
(ROM) and how it		
may be periodically		
upgraded		

F. Assessment



Effective assessment

The main purpose of assessment is to improve student learning. Assessment is an ongoing process of gathering and using evidence of student achievement.

Effective assessment enables

• Students to better understand their progress towards goals and become more knowledgeable and self-directed in their learning

• Teachers to make more informed judgments about student progress and design more effective teaching programs, and

• Parents and care givers to better understand and support student learning and achievement.

Effective assessment emphasizes

• Assessment for learning – teachers using evidence of student progress to inform their teaching

• Assessment as learning – students reflecting on and evaluating their progress to inform future learning goals, and

• Assessment of learning – teachers using evidence of student learning to make individual and collective judgments on student achievement against specific curriculum goals and standards.

Assessing ICT

The ICT cross curricular framework provides teachers with a broad range of opportunities for students to show what they know and can do. It provides scope for students to contribute diverse and valid evidence of their learning across the curriculum as well as within ICT. The use of ICT also helps to make assessing and reporting more efficient for students and teachers.

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Effective assessment methods include:

• Informal assessment – students and teachers making representative judgments about what they have learned on a regular basis

• Formal assessment tasks – students demonstrating achievement against explicit criteria that are known prior to undertaking a learning task

• Observations or anecdotal records – teachers taking informal notes while working with students

• Checklists – teachers recording a snapshot of student knowledge, skills and understanding

• Portfolios – students building up carefully selected collections of their work over time

• Weblogs – students documenting their ongoing reflections about their thinking and understanding.

On-balance judgment

A final decision about whether students are rated as competent or not competent is made using an on-balance judgment. An accurate on-balance judgment considers:

- The consistency of student performance over a period of time
- Clear indications of progress from first attempts to current performance
- Demonstration of knowledge, processes and skills in different contexts
- The validity of the assessment task in relation to the intended outcomes
- Whether there is evidence of achievement to rate a student as competent
- Relative performance on similar tasks by peers

• Teacher reflection and collaboration to increase consistency and validity of judgment

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