

Software

Types of Software

Distinguish between operating systems software and applications software. Understand the reasons for software versions.

Operating System Software

Describe the main functions of an operating system and name some common operating systems.

Applications Software

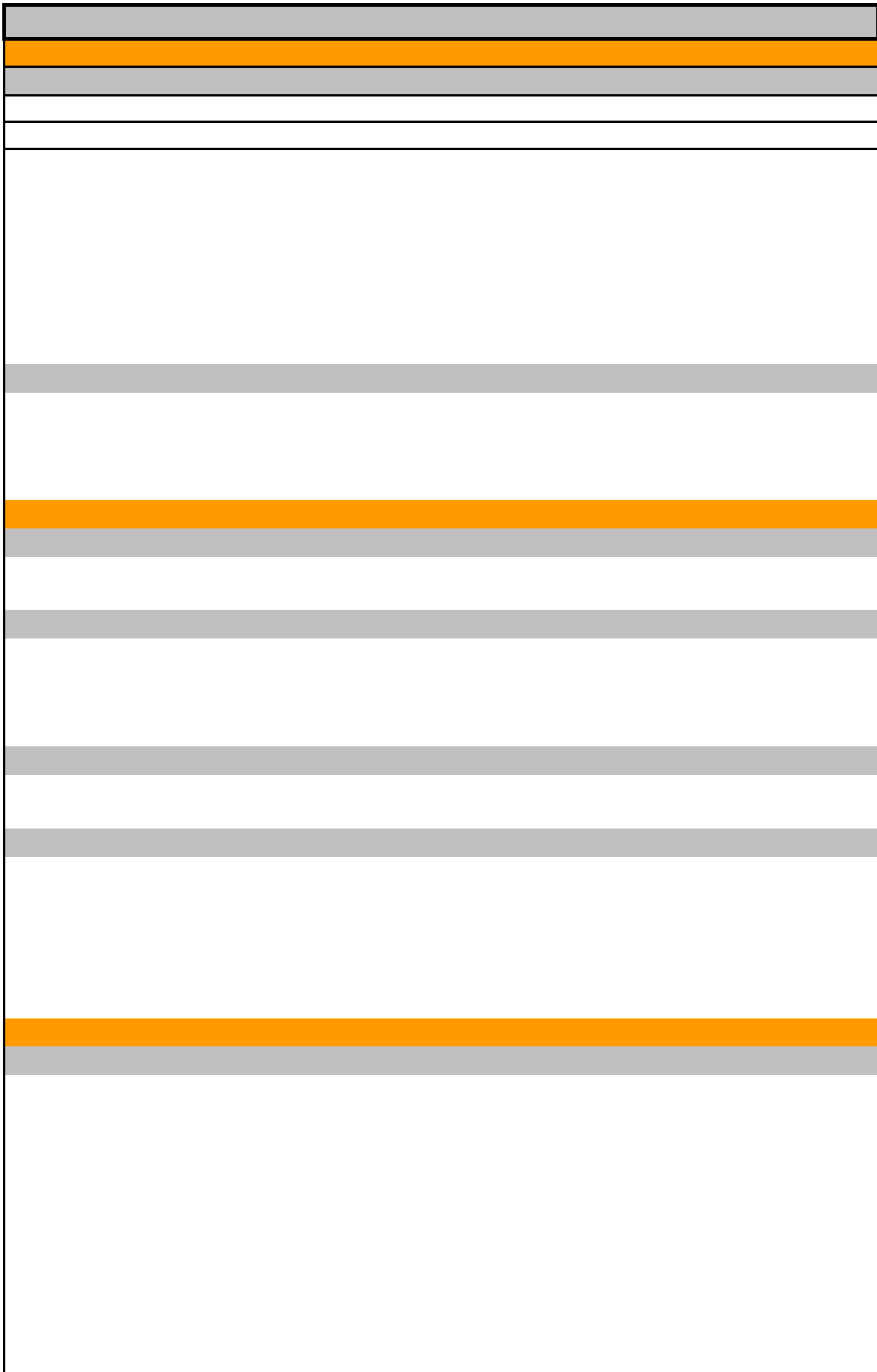
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| Know some of the uses of computer applications in education such as: student registration and timetabling systems, computer-based training (CBT), distance learning, homework using the Internet. |
| Understand the term teleworking. List some of the advantages of teleworking such as: reduced or no commuting time, greater ability to focus on one task, flexible schedules, reduced company space requirements. List some disadvantages of teleworking such as: lack of human contact, less emphasis on teamwork. |
| <i>Electronic World</i> |
| Understand the term electronic mail (e-mail) and know its main uses. |
| Understand the term e-Commerce. Understand the concept of purchasing goods and services online, including giving personal details before a transaction can be carried out, payment methods, consumer's basic right to return unsatisfactory goods. |
| List some of the advantages of purchasing goods and services online, such as: services available 24 hours a day, opportunity to view a wide range of products. List some of the disadvantages of purchasing goods and services online such as: choosing from a virtual store, no human contact, risk of insecure payment methods. |
| Health and Safety, Environment |
| <i>Ergonomics</i> |
| Understand what elements and practices can help create a good, working environment such as: appropriate positioning of monitors, keyboards and adjustable chairs, use of a mouse mat, use of a monitor filter, provision of adequate lighting and ventilation, frequent breaks away from the computer. |
| <i>Health Issues</i> |
| List some common health problems which can be associated with using a computer such as: injuries to wrists caused by prolonged typing, eye strain caused by screen glare, back problems associated with poor seating or bad posture. |
| <i>Precautions</i> |
| List some safety precautions when using a computer such as: ensuring power cables are safely secured, power points are not overloaded. |
| <i>The Environment</i> |
| Be aware that recycling printed outputs, recycling printer toner cartridges, using a monitor that consumes less power while the computer is inactive can help the environment. |
| Understand that using electronic documents can help reduce the need for printed materials. |

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| Security |
| <i>Information Security</i> |
| Understand the term information security and the benefits to an organization of being proactive in dealing with security risks such as: adopting an information security policy with respect to handling sensitive data, having procedures for reporting security incidents, making staff members aware of their responsibilities with respect to information security. |
| Know about privacy issues associated with computers, such as adopting good password policies. Understand what is meant by user ID and differentiate between user ID and password. Understand the term access rights and know why access rights are important. |
| Know about the purpose and value of backing up data, software to a removable storage device. |
| Be aware of possible implications of theft of a laptop computer, PDA, mobile phone such as: possible misuse of confidential files, loss of files, loss of important contact details if not available on a separate source, possible misuse of telephone numbers. |
| <i>Computer Viruses</i> |
| Understand the term virus when used in computing and understand that there are different types of virus. Be aware when and how viruses can enter a computer system. |
| Know about anti-virus measures and what to do when a virus infects a computer. Be aware of the limitations of anti-virus software. Understand what 'disinfecting' files means. |
| Understand good practice when downloading files, accessing file attachments, such as: use of virus scanning software, not opening unrecognized e-mail messages, not opening attachments contained within unrecognized e-mail messages. |
| Copyright and the Law |
| <i>Copyright</i> |
| Understand the concept of copyright when applied to software, and also to files such as: graphics, text, audio, video. Understand copyright issues involved in downloading information from the Internet. |
| Understand copyright issues associated with using and distributing materials stored on removable media such as CD's, Zip disks, diskettes. |
| Know how to check the Product ID number for a software product. Understand the terms shareware, freeware, end-user license agreement. |
| <i>Data Protection Legislation</i> |
| Know about data protection legislation or conventions in your country. Understand the implications of data protection legislation for data subjects and data holders. Describe some of the uses of personal data. |



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| Prepare Outputs |
| Worksheet Setup |
| Change page margins: top, bottom, left, right. |
| Change page orientation: portrait, landscape. Change paper size. |
| Adjust page setup to fit worksheet contents on one page, on a specific number of pages. |
| Add, modify text in Headers, Footers in a worksheet |
| Insert fields: Page numbering information, date, time, file name, worksheet name into Headers, Footers. |
| Preparation |
| Understand the importance of checking spreadsheet calculations and text before distribution. |
| Preview a worksheet |
| Turn on, off display of gridlines, display of row and column headings for printing purposes |
| Apply automatic title row(s) viewing on every page of a printed worksheet. |
| Printing |
| Print a cell range from a worksheet, an entire worksheet, number of copies of a worksheet, the entire spreadsheet, a selected chart. |

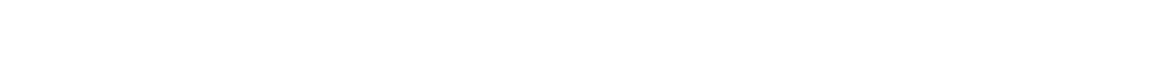
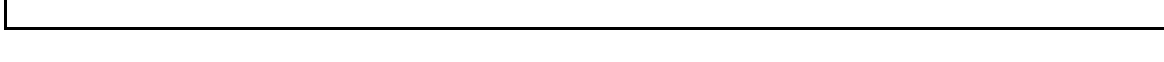
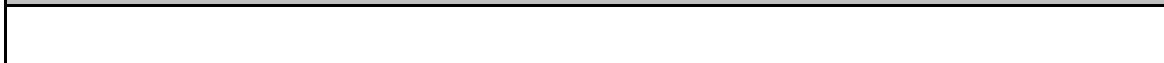
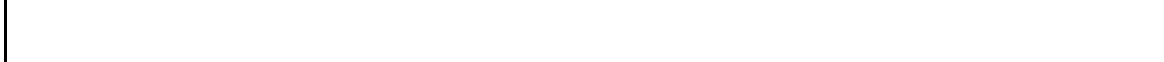
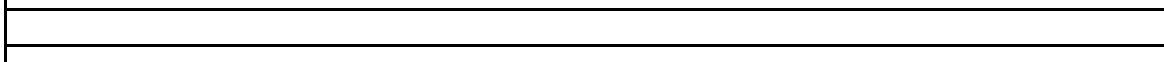
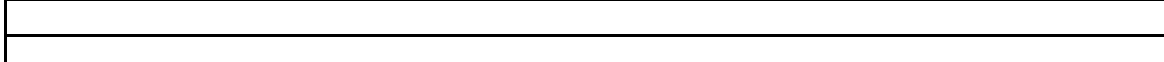
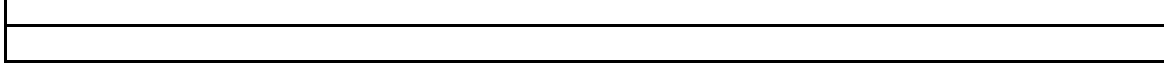
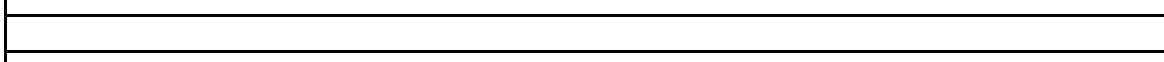
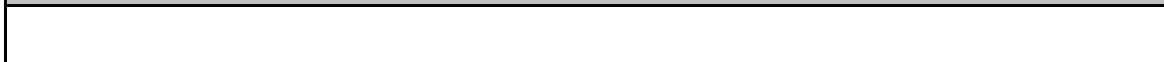
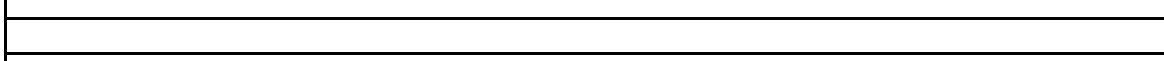
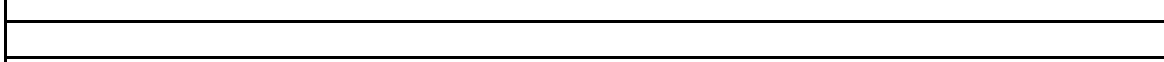
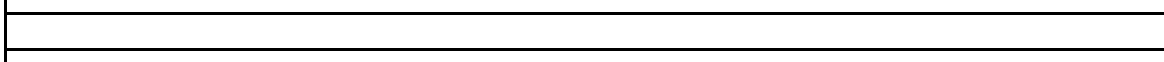
| Databases |
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| Using the Application |
| Database concepts |
| Understand what a database is. |
| Understand how a database is organized in terms of tables, records, fields, and with field data types, field properties. |
| Understand what a primary key is. |
| Understand what an index is. |
| Understand the purpose of relating tables in a database. |
| Understand the importance of setting rules to ensure relationships between tables are valid. |
| First steps with databases |
| Open (and close) a database application. |
| Open, log onto an existing database. |
| Create a new database. |
| Save a database to a location on a drive. |
| Use available Help functions. |
| Close a database. |
| Adjust settings |
| Change between view modes in a table, form, report. |
| Display, hide built in toolbars. |
| Tables |
| Main operations |
| Create and save a table, and specify fields with their data types. |
| Add, delete records in a table. |
| Add a field to an existing table. |
| Add, modify data in a record. |
| Delete data in a record. |
| Use the Undo command. |
| Navigate within a table to next record, previous record, first record, last record, specific record. |
| Delete a table. |
| Save and close a table. |
| Define keys |
| Define a primary key. |
| Index a field with, without duplicates allowed. |
| Table design/layout |
| Change field format attributes such as: field size, number format, date format. |
| Understand consequences of changing field size attributes in a table. |
| Create a simple validation rule for number, text, date/time, currency. |
| Change width of columns in a table. |
| Move a column within a table |
| Table relationships |
| Create a one-to-one, one-to-many relationship between tables. |
| Delete relationships between tables. |
| Apply rule(s) to relationships such that fields that join tables are not deleted as long as links to another table exist. |



Pictures, Images

Insert a picture into a slide

Insert an ima



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| Prepare Outputs |
| Preparation |
| Select appropriate output format for slide presentation such as: overhead, handout, 35 mm slides, on-screen show. |
| Spell-check a presentation and make changes such as: correcting spelling errors, deleting repeated words. |
| Add notes for the presenter to slides. |
| Change slide setup, slide orientation to portrait, landscape. Change paper size. |
| Duplicate, move slides within the presentation, between open presentations. |
| Delete a slide, slides. |
| Printing |
| Print entire presentation, specific slides, handouts, notes pages, outline view of slides, number of copies of a presentation. |
| Deliver a Presentation |
| Hide, show slides. |
| Start a slide show, start a slide show on any slide. |

