

## Area of Learning: APPLIED DESIGN, SKILLS, AND TECHNOLOGIES — **Business Computer Applications**

Grade 12

Ministry of Education

### **BIG IDEAS**

Services and products can be designed through consultation and collaboration.

**Business creates** opportunities to enable change.

Tools and technologies can be adapted for specific purposes.

### **Learning Standards**

Curricular Competencies	Content
Students are expected to be able to do the following:	Students are expected to know the following:
<ul> <li>Applied Design</li> <li>Conduct research to determine the product best suited to the application</li> <li>Choose a direction and point of view for the task at hand</li> <li>Identify potential users, intended impact, and possible unintended negative consequences</li> <li>Make decisions about premises and boundaries that define the task at hand</li> <li>Identify gaps to explore options with the goal of enhancing</li> </ul>	<ul> <li>computer peripherals</li> <li>basic operating systems and software operations on multiple platforms</li> <li>industry-standard business application software</li> <li>efficient integration of multiple software components within all aspects of business application suites</li> <li>business approach to creating and formatting documents and using custom tools for enhancement, including:         <ul> <li>e-mail protocol and etiquette</li> <li>header, footer, table of contents, mail merge, font, word art,</li> </ul> </li> </ul>
<ul> <li>Generate ideas, individually and collaboratively, to contribute to the creation of a business product</li> </ul>	text box  - business protocol, formality, and tone in business documents and applications
<ul> <li>Prioritize ideas for drafting a sample product for the task</li> <li>Identify, critique, and use a variety of sources of inspiration and information</li> </ul>	<ul> <li>formulas and functions in a spreadsheet</li> <li>design, creation, and manipulation of databases and database objects</li> </ul>
<ul> <li>Outline and design a draft approach based on research, premises, and boundaries</li> </ul>	<ul> <li>calendar scheduling, viewing, and syncing, including resource scheduling in shared calendars</li> </ul>
<ul> <li>Create and use complex business applications to support business and client needs</li> </ul>	<ul> <li>narration, custom animations, and effects in presentation software</li> <li>notetaking and note-management software</li> </ul>
Record and track iterations of work generated	<ul> <li>brochures, flyers, calendars, publications, and other business communications</li> </ul>



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## **Learning Standards (continued)**

Curricular Competencies	Content
<ul> <li>Obtain and evaluate critical feedback from multiple sources, both initially and over time</li> <li>Based on feedback received and evaluated, make changes to business application products or processes as needed</li> <li>Engage in problem-solving practices by applying appropriate skills to discover optimal solution(s) based on prevailing circumstances</li> <li>Identify tools, technologies, materials, processes, and time needed for development and implementation</li> <li>Use project management processes when working individually or collaboratively to create processes or products</li> <li>Share progress to increase feedback and collaboration</li> <li>Create projects that use integrated business software applications</li> <li>Critically evaluate their ability to work effectively, both individually and collaboratively</li> <li>Applied Skills</li> <li>Choose an appropriate form, scale, and level of detail for communicating outcomes in a clear and concise manner</li> <li>Identify and critically assess skills needed related to current or projected tasks, and develop specific plans to learn or refine skills over time</li> <li>Evaluate safety issues for themselves, co-workers, and users in both physical and digital environments</li> <li>Evaluate and apply a framework for problem solving</li> </ul>	<ul> <li>meeting protocol and etiquette</li> <li>file management techniques</li> <li>cloud-based computing and work applications</li> <li>interpersonal and public relations skills to promote products or services and to interact with potential customers/clients</li> <li>industry best practices</li> <li>career options and opportunities in various business sectors</li> </ul>



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## **Learning Standards (continued)**

Curricular Competencies	Content
Applied Technologies	
<ul> <li>Explore existing, new, and emerging tools, technologies, and systems and evaluate their suitability for the task at hand</li> </ul>	
<ul> <li>Evaluate impacts, including unintended negative consequences, of choices made about technology use</li> </ul>	
<ul> <li>Analyze the role and personal, interpersonal, social, and environmental impacts of technologies in societal change</li> </ul>	
<ul> <li>Identify appropriate tools, technologies, materials, processes, and time needed for production, and where/how these could be made available</li> </ul>	
Use tools and technologies for efficiency	
<ul> <li>Use business productivity software to manipulate data and find solutions to business problems</li> </ul>	
<ul> <li>Resolve simple problems that may be encountered while using a computer and undertake basic troubleshooting</li> </ul>	

# APPLIED DESIGN, SKILLS, AND TECHNOLOGIES – Business Computer Applications Grade 12

#### **Big Ideas - Elaborations**

• technologies: tools that extend human capabilities

# APPLIED DESIGN, SKILLS, AND TECHNOLOGIES – Business Computer Applications Grade 12

### **Curricular Competencies – Elaborations**

- research: for example, of the business requirements, including formats, timelines, deliverables, and audience
- point of view: for example, what shape will the document/spreadsheet/presentation/database take?
- Identify: for example, document the recipients, establish information transfer protocols
- premises and boundaries: for example, platform-based or cloud-based; security requirements
- gaps to explore: for example, how the business application can be creatively developed to best suit the recipient/client; positives/negatives of stand-alone applications versus networked/web-based
- draft approach: for example, the data and features to be included in the business application being created
- Record and track: for example, track versions, back up data, track edits
- sources: for example, those who can provide feedback that will support the development of a better-designed business application
- project management processes: setting goals, planning, organizing, constructing, monitoring, and leading during execution
- appropriate form, scale, and level of detail: present the ideas developed after looking at best practices, and make the presentation succinct
- develop specific plans: for example, explore opportunities and options for professional development and certification
- safety issues: for example, viruses, phishing, privacy (digital); ergonomics, lifting, repetitive stress injuries (physical)

### APPLIED DESIGN, SKILLS, AND TECHNOLOGIES – Business Computer Applications Grade 12

#### **Content – Elaborations**

- computer peripherals: input/output, mouse, scanner, printer/fax/copier, alternative input devices such as virtual keyboard, stylus, tablet
- business application: for example, word processing, spreadsheets, digital presentation software suites, databases, digital printing
- efficient: fast data processing, easy information retrieval
- components: for example, spreadsheets, text documents, calendars, databases
- documents: for example, business letters, research documents, flyers, spreadsheets, tables, graphs, charts, posters
- databases and database objects: for example, tables, fields, records, views, queries, forms, reports
- meeting protocol and etiquette: for example, organizing and conducting a meeting, creating an agenda, gathering input, determining intended outcomes, facilitating consensus, taking minutes, publishing minutes
- file management: manipulating electronic files and folders in local, networked, and cloud-based environments
- interpersonal and public relations skills: for example, professional communications, collaboration, follow-ups, and courtesies; technological or visual supports to accompany marketing or demonstrations at meetings and conferences; social media and networking