

Area of Learning: APPLIED DESIGN, SKILLS, AND TECHNOLOGIES — Graphic Production Grade 11

BIG IDEAS

Design for the life cycle includes consideration of social and environmental impacts. Design choices require the evaluation and refinement of skills.

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: **Applied Design** design and production opportunities • technologies for image development in prepress Understanding context through post-production environments • Engage in a period of user-centered research and empathetic observation elements and principles of design as communication tools • Participate in reciprocal relationships throughout the design and production process design for the life cycle intellectual property use and its ethical, moral, and legal **Defining** considerations, including cultural appropriation Establish a point of view for a chosen design opportunity • standards of production and limitations of chosen materials Identify potential users, intended impact, and possible unintended negative for efficient output consequences standards-compliant technology Make inferences about premises and constraints that define the design balance of form and function and production influences on culture through graphic production Ideating graphic design through various stages of project Generate ideas and add to others' ideas to create possibilities, and prioritize them for prototyping use of typography to communicate a message or idea · Critically analyze how competing social, ethical, and sustainability materials organization, planning, and time frame considerations impact designed solutions to meet global needs role of manufacturing in meeting consumer needs and wants Work with users throughout the design process design presentation skills for potential clients appropriate use of technology, including digital citizenship, etiquette, and literacy



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Ministry of Education

Learning Standards (continued)

Curricular Competencies	Content
Prototyping	
 Identify and apply sources of inspiration and information 	
 Choose an appropriate form, scale, and level of detail for prototyping, and plan procedures for prototyping multiple ideas 	
 Analyze the design for the life cycle and evaluate its impacts 	
 Construct prototypes, making changes to tools, materials, and procedures as needed 	
 Record iterations of prototyping 	
Testing	
 Identify feedback most needed and possible sources of feedback 	
 Develop an appropriate test of the prototype 	
 Collect feedback to critically evaluate design and make changes to design processes and production 	
 Iterate the prototype or abandon the design idea 	
Making	
 Identify appropriate tools, technologies, materials, processes, and time needed for production 	
 Use project management processes when working individually or collaboratively to coordinate production 	
Sharing	
 Share progress while creating to increase opportunities for feedback and collaboration 	
 Decide on how and with whom to share or promote product, creativity, and, if applicable, intellectual property 	
 Consider how others might build upon the design concept 	
 Critically reflect on their design thinking and processes, and identify new design goals 	
 Assess ability to work effectively both as individuals and collaboratively while implementing project management processes 	



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Learning Standards (continued)

Curricular Competencies	Content
Applied Skills	
 Apply safety procedures for themselves, co-workers, and users in both physical and digital environments 	
 Identify and assess skills needed for design and production interests, and develop specific plans to learn or refine them over time 	
 Develop competency and proficiency in task-specific skills involving manual dexterity and software processes 	
Applied Technologies	
 Explore existing, new, and emerging tools, technologies, and systems to evaluate suitability for their design and production interests 	
 Evaluate impacts, including unintended negative consequences, of choices made about technology use 	
Analyze the role technologies play in societal change	
 Examine how cultural beliefs, values, and ethical positions affect the development and use of technologies 	

Big Ideas - Elaborations

· environmental impacts: including manufacturing, packaging, and disposal and recycling considerations

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Curricular Competencies – Elaborations

- user-centred research: research done directly with potential users to understand how they do things and why, their physical and emotional needs, how they think about the world, and what is meaningful to them
- **empathetic observation:** may include experiences; traditional cultural knowledge and approaches; First Peoples worldviews, perspectives, knowledge, and practices; places, including the land and its natural resources and analogous settings; users, experts, and thought leaders
- reciprocal relationships: communicate with knowledge keepers for greater understanding of perspectives and history within the community, such as seniors, Elders, chiefs, First Nations tribal or band councils, and later career professionals
- constraints: limiting factors, such as available technology, expense, environmental impact, copyright
- **sources of inspiration:** may include aesthetic experiences; exploration of First Peoples perspectives and knowledge; the natural environment and places, including the land, its natural resources, and analogous settings; people, including users, experts, and thought leaders
- **information:** may include professionals; First Nations, Métis, or Inuit community experts; secondary sources; collective pools of knowledge in communities and collaborative atmospheres both online and offline
- **impacts:** including the social and environmental impacts of extraction and transportation of raw materials, manufacturing, packaging, transportation to markets, servicing or providing replacement parts, expected usable lifetime, and reuse or recycling of component materials
- iterations: repetitions of a process with the aim of approaching a desired result
- sources of feedback: may include peers; users; First Nations, Métis, or Inuit community experts; other experts and professionals both online and offline
- appropriate test: includes evaluating the degree of authenticity required for the setting of the test, deciding on an appropriate type and number of trials, and collecting and compiling data
- project management processes: setting goals, planning, organizing, constructing, monitoring, and leading during execution
- Share: may include showing to others, use by others, giving away, or marketing and selling
- intellectual property: creations of the intellect such as works of art, invention, discoveries, design ideas to which one has the legal rights of ownership
- technologies: tools that extend human capabilities

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Content – **Elaborations**

- technologies for image development: for example, layout and design, graphics and images, photography (digital and traditional), new and emerging media processes
- prepress: transferring file from the computer to one that can be output
- elements: for example, colour, form, line, shape, space, texture, tone, value
- principles of design: for example, balance, contrast, emphasis, harmony, movement, pattern, repetition, rhythm, unity
- design for the life cycle: taking into account in the design process, economic costs, and social and environmental impacts of the product, from the extraction of raw materials to eventual reuse or recycling of component materials
- ethical, moral, and legal considerations: for example, regulatory issues relating to responsibility for duplication, copyright, appropriation of imagery, sound, and video
- **cultural appropriation:** using or sharing a cultural motif, theme, "voice," image, knowledge, story, song, or drama without permission or without appropriate context or in a way that may misrepresent the real experience of the people from whose culture it is drawn
- standards: for example, units, sizes, materials
- limitations: for example, cost, availability, physical properties, product hazards
- standards-compliant: for example, layout conventions, mark-up language, current web standards, or other digital media compliance requirements
- **graphic production:** for example, yearbook, 2D and 3D graphics, printing technology, vinyl graphics, sign design, print technician, graphic communications, commercial print production, packaging, new media, marketing communications
- typography: the art, design, and technique of crafting and arranging type for effective and aesthetic communication