



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
<p><i>Students are expected to be able to do the following:</i></p> <p>Applied Design</p> <p><i>Understanding context</i></p> <ul style="list-style-type: none">Engage in a period of user-centered research and empathetic observationParticipate in reciprocal relationships throughout the design and production process <p><i>Defining</i></p> <ul style="list-style-type: none">Establish a point of view for a chosen design opportunityIdentify potential users, intended impact, and possible unintended negative consequencesMake inferences about premises and constraints that define the design and production <p><i>Ideating</i></p> <ul style="list-style-type: none">Generate ideas and add to others' ideas to create possibilities, and prioritize them for prototypingCritically analyze how competing social, ethical, and sustainability considerations impact designed solutions to meet global needsWork with users throughout the design process	<p><i>Students are expected to know the following:</i></p> <ul style="list-style-type: none">design and production opportunitiestechnologies for image development in prepress through post-production environmentselements and principles of design as communication toolsdesign for the life cycleintellectual property use and its ethical, moral, and legal considerations, including cultural appropriationstandards of production and limitations of chosen materials for efficient outputstandards-compliant technologybalance of form and functioninfluences on culture through graphic productiongraphic design through various stages of projectuse of typography to communicate a message or ideamaterials organization, planning, and time framerole of manufacturing in meeting consumer needs and wantsdesign presentation skills for potential clientsappropriate use of technology, including digital citizenship, etiquette, and literacy



Learning Standards (continued)

Curricular Competencies	Content
<p>Prototyping</p> <ul style="list-style-type: none">Identify and apply sources of inspiration and informationChoose an appropriate form, scale, and level of detail for prototyping, and plan procedures for prototyping multiple ideasAnalyze the design for the life cycle and evaluate its impactsConstruct prototypes, making changes to tools, materials, and procedures as neededRecord iterations of prototyping <p>Testing</p> <ul style="list-style-type: none">Identify feedback most needed and possible sources of feedbackDevelop an appropriate test of the prototypeCollect feedback to critically evaluate design and make changes to design processes and productionIterate the prototype or abandon the design idea <p>Making</p> <ul style="list-style-type: none">Identify appropriate tools, technologies, materials, processes, and time needed for productionUse project management processes when working individually or collaboratively to coordinate production <p>Sharing</p> <ul style="list-style-type: none">Share progress while creating to increase opportunities for feedback and collaborationDecide on how and with whom to share or promote product, creativity, and, if applicable, intellectual propertyConsider how others might build upon the design conceptCritically reflect on their design thinking and processes, and identify new design goalsAssess ability to work effectively both as individuals and collaboratively while implementing project management processes	



Ministry of Education

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

Learning Standards (continued)

Curricular Competencies	Content
<p>Applied Skills</p> <ul style="list-style-type: none">Apply safety procedures for themselves, co-workers, and users in both physical and digital environmentsIdentify and assess skills needed for design and production interests, and develop specific plans to learn or refine them over timeDevelop competency and proficiency in task-specific skills involving manual dexterity and software processes <p>Applied Technologies</p> <ul style="list-style-type: none">Explore existing, new, and emerging tools, technologies, and systems to evaluate suitability for their design and production interestsEvaluate impacts, including unintended negative consequences, of choices made about technology useAnalyze the role technologies play in societal changeExamine how cultural beliefs, values, and ethical positions affect the development and use of technologies	