



BIG IDEAS

The **design cycle** is an ongoing reflective process.

Personal design choices require self-exploration, collaboration, and evaluation and refinement of skills.

Design and content can influence the lives of others.

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">Conduct user-centred research to determine design opportunities and barriers <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 decisions about premises and constraints that define the design space <p><i>Ideating</i></p> <ul style="list-style-type: none">Identify gaps to explore a design spaceGenerate ideas and add to others' ideas to create possibilities, and prioritize them for prototypingCritically analyze how competing social, ethical, and community factors may impact designPrioritize ideas for prototypingWork with users throughout the design process	<p><i>Students are expected to know the following:</i></p> <ul style="list-style-type: none">design opportunitiesdesign cycle2D, 3D, audio, and video digital media editing tools, including paid, freeware, open source, and cloud-based solutionsprinciples of 2D graphic designtools and techniques for image manipulationmethods and principles of 3D graphic designmethods for digital animationmethods for 3D modellingdigital sound and audio data compressioncomputer-assisted versus computer-generatedprinciples of desktop video productionprinciples of user-centred designappropriate use of technology, including digital citizenship, etiquette, and literacyethics of cultural appropriationinterpersonal skills, including ways to interact with clients

**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 and communicate with sources of feedbackDevelop an appropriate test of the prototypeApply critiques to design or processes throughoutIterate 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 critique, collaboration, and, if applicable, marketingDecide on how and with whom to share or promote their 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	



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 environments• Identify and assess skills needed for design interests, and develop specific plans to learn or refine them over time <p>Applied Technologies</p> <ul style="list-style-type: none">• Explore existing, new, and emerging tools, technologies, and systems to evaluate their suitability for their design 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	