Caught in Action (Digital Camera/Video) **ICT.6**

TIME
90 minutes

OVERVIEW
Students use a digital camera and/or still shots from a digital video camera to take pictures of themselves and to create a poster that shares their skills and talents.

LEARNING OUTCOMES
Through this learning experience (LE), students will achieve specific learning outcomes (SLOs) in various subject areas. Consider the intent of this LE and your choice of instructional and assessment strategies to determine which SLOs students may achieve, in addition to those identified.

English Language Arts
Consider the intent of this LE and your choice of instructional and assessment strategies to determine which SLOs students may achieve, in addition to those identified below:
- 4.2.3 *Enhance Legibility*—Write legibly, with increasing speed, using a handwriting style that is consistent in alignment, shape, slant, and spacing; experiment with the use of templates, formatting, and familiar software when composing and revising.
- 4.2.4 *Enhance Artistry*—Choose descriptive language and sentence patterns to clarify and enhance ideas.
- 5.2.1 *Cooperate with Others*—Appreciate that everyone in a group has to work together to achieve cooperative and collaborative group tasks, and act accordingly.

ICT LITERACY SKILLS AND COMPETENCIES
Consider the intent of this LE and your choice of instructional and assessment strategies to determine which skills and competencies students may achieve, in addition to those identified below:
- basic operating skills
- communicating electronically
- concept mapping

SUGGESTED LEARNING RESOURCES
Software
- image editing
- video editing
- photo editing
- graphics

Print
- Appendix C: Index of Teaching, Learning, and Assessment Strategies

BLMs
- BLM ICT.1#2: Survey of Information and Communication Technology (ICT) Skills
- BLM OLE.5#2: Share the Learning Journal
- BLM OLE.8#2: What Have I Learned?

TBLMs
- TBLM ICT.2#1: Skill Know-How Checklist
- TBLM ICT.6#1: Resizing Images Using Image Editor
- TBLM ICT.6#2: Introductory Digital Camera Skills: Observation Checklist

Materials
- chart paper
- digital camera
- digital video camera
- photo-quality printer paper

SUGGESTIONS FOR INSTRUCTION

Preparation and Set-up
- Become familiar with the functions of the digital camera and/or digital video camera available in the school. During the class demonstration, connect the camera to the television and demonstrate some of the features while taking a picture of the class. Show how the pictures can be viewed using the "play" mode.
- Create a sample poster that students can use as a model.
- Review the database of students' ICT skills, as expressed on BLM ICT.1#2: Survey of Information and Communication Technology (ICT) Skills, to identify possible student helpers for ICT.6: Caught in Action.
- Customize TBLM ICT.2#1: Skill Know-How Checklist for this ICT to make ongoing observations of students' skills.

Activating Strategies
- Students complete a Think-Pair-Share strategy on the purpose and components of a poster. A recorder notes shared ideas on chart paper, or using concept mapping software.
- Students observe a demonstration on the function of the digital camera, including the
  - LCD panel (LCD—liquid crystal display)
  - "on" and "play" buttons
  - shutter button
  - location of the batteries
- Students listen to a photographer talk about lighting and composition.

Acquiring Strategies
- In collaborative groups, students brainstorm for positive qualities and characteristics that could be included in a poster. They discuss possible formats for their posters.
- Students use concept mapping software (see ICT.5: Inspired) to record their positive qualities and characteristics, as well as specials skills and talents they wish to include on their posters. They use the computer and graphics software (see ICT.4: Looks Like This) to draft their posters.
- Students practise using the digital camera.
- Students watch a demonstration on how to download a picture, a still video frame (most digital video cameras have a function allowing the user to make a still photo), or a video clip to the computer.
- Students practise cropping, resizing, and exporting a **jpeg** of images for use in a multimedia presentation (see TBLM ICT.6#1: Resizing Images Using Image Editor and ICT.7: Make Your Point).
- Students leave their posters on the computer monitors for a Gallery Walk. They examine each other's designs and make helpful suggestions.

Applying Strategies

- Each student creates his or her poster. Students import pictures of themselves into the appropriate location on the poster and resize it if needed. They print their poster and insert it into their Personal OLE Binder (see OLE.1: Personal Binder Reminder). Photo-quality printer paper is suitable for this purpose.

Variations/Extensions

- Students capture photographs and/or video clips of their learning in action. They edit and insert these images into multimedia presentations.
- Students film a school event and present it to the class during a session of OLE.7: Speak Ye! Hear Ye!
- Students write up and film a news report (see OLE.9: Newspapers).
- Students include a photograph of themselves on the title page of their Personal OLE Binder (see OLE.1: Personal Binder Reminder).
- Students include digital pictures and video clips in a multimedia presentation (see ICT.7: Make Your Point).
- Students create journal entries using BLM OLE.5#2: Share the Learning Journal as they make learning discoveries. They use their journals to prepare for sharing sessions and bring home their journals each week.

SUGGESTIONS FOR ASSESSMENT

- Students reflect on their learning related to this ICT as they update BLM OLE.8#2: What Have I Learned? during reflection time (see OLE.8: Reflection Journal). They list newly acquired skills.
- As students develop their digital camera skills, observe and note their progress, using TBLM ICT.6#2: Introductory Digital Camera Skills: Observation Checklist.

***CONNECTION TO* COMMUNITY AND DIVERSITY**

- Students create posters and brochures including digital images, and record their work with pictures and video clips, throughout this interdisciplinary unit to share at the *Canadian Youth Forum: Celebrating Community and Diversity*.

TBLM ICT.6#1: Resizing Images Using Image Editor

Overview

- In this task you will resize a digital image and export it as a **jpeg**. The image will then be ready to use for a multimedia project.

Learning Resources and Materials Required

- image editing software
- digital images downloaded from the camera
- electronic folder in which to store the images

Steps to Follow

- Start the image editor.
- Go to File, and then to Open File. A dialog box will open.
- Locate the folder where the downloaded images are stored. Select the image you wish to resize.

Resize the Entire Image

- Go to Image, and then to Image Size. A dialog box will open.
- Under Document Size, set the size desired for the image height. The width will adjust in proportion to the height.
  Note: Select the format for the image from the drop-down menu in the box next to the size boxes. This involves a choice of inches, centimetres, pixels, and so on.
- Do a Save As and rename the image, especially if you have edited it. Using the drop-down Format menu, select a format for the image. The best formats for use in multimedia presentations are **jpeg** and **gif.** The file extension will be added automatically.

Resize the Image by Cropping

- Click on the Cropping tool. It is the third tool down on the left in the toolbox. If you are unsure, slide the mouse over the tools to bring up their names.
- Click on the upper left of the area to be cropped, hold, and drag down and to the right until you have selected an area. The selected area can be moved by clicking in its centre and sliding it in the desired direction.
- Click Enter to view the selected area as a new window.
  Note: A new window will replace the previous one. If you want to keep the original image, make a copy of it by doing a Save As of the image and work with that copy.
- Follow the directions above for saving the image in the appropriate format.

The resized image is ready for your multimedia presentation.

This document can be stored in the Toolbox Binder (see ICT.1: Toolbox Binder).

TBLM ICT.6#2: Introductory Digital Camera Skills: Observation Checklist

Student Name	Digital Camera Skill							
	Holds camera safely and with strap.	Uses distance selector.	Uses "play" mode to see images.	Downloads images into appropriate folder.	Is able to "snap" picture.	Is able to delete images.	Other:	Other: