

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

This document outlines a variety of possible technology-enhanced tasks and assessments, as organized by eight generic domains of learning outcomes. It can be used as a resource for brainstorming and selecting suitable online teaching and learning activities based on the learning outcomes an instructor intends for student achievement.

How to Use this Resource

1. Select the learning outcome of focus

What do you want students to achieve? Consider the eight generic domains of learning outcomes and identify the domains that most closely align with your goals for student learning.

For example, if the learning outcome is:

Explain the functions of tissue types found in the human body

Then you might start by referring to the *Demonstrating Knowledge and Understanding* page, where the verb “explain” is listed across the top in the example verbs list.

2. Explore potential tasks and assessments chart

What tasks might students engage in – as a learning activity, assessment, or both – as they actively work towards the learning outcome? Types of learning activities range from engagement (e.g. a learning activity during a weekly module) to performance (e.g. an assessment, final product, or test).

Use the table to generate ideas for your course. Ideas might be a combination of various elements from the table, for example group work where the task is to conduct a lab experiment and submit a lab report.

3. Explore example tools

At the bottom of each page, you will find a list of example tools and technologies that support the various types of activities and assessments listed above. These tools are preliminary examples and should always be considered more thoroughly before adopting them for your course.

For more support in selecting eLearning tools, please visit the eLearning Toolkit: elearningtoolkit.uwo.ca

For support in integrating these technologies and more into your course, contact Western’s eLearning Teams at elearning-support@uwo.ca

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

Demonstrating Knowledge and Understanding

define, describe, name, list, match, repeat, remember, identify, explain, select, check, predict, conclude

	Types of Learning Activities	Example Tasks & Assessments
Engagement	Acquisition – obtaining new knowledge, skills, or values	Guided readings Video lectures Interactive modules/lessons Webinars (live virtual classrooms)
	Practice – adapt actions based upon feedback	Games for learning – repetition, recall Forum posts Complete practice problems Digital curation Development of a mind-map or timeline
Performance	Collaboration – learning through working with others	Special interest groups sharing on a topic
	Production – consolidating and articulating understanding in an artifact or performance	Examinations (written, oral) Sharing digital productions (mindmaps, timelines, curated materials) Infographic Diagram, model Write exam questions

Technology-Enhanced Strategy and Example Tools

Diagram/model creation: Canva, PowerPoint

Digital Curation: Scoop.it, Pinterest, Padlet, Evernote

Examinations: Tests & Quizzes (OWL), VoiceThread (OWL)

Forums: Forums (OWL), VoiceThread (OWL), Piazza

Games: Kahoot!, Quizlet

Guiding readings: Resources (OWL), Course Readings (OWL), Lessons (OWL), Pressbooks

Infographic Design: Canva, PowerPoint

Interactive module creation: Articulate Storyline or Rise

Lessons with interactive components: Lessons tool (OWL) with embedded VoiceThread, Google Drive materials, videos (e.g. YouTube), Mentimeter activities, H5P activities, or games

Mindmaps: Coggle, Lucidchart

Sharing with Others: Forums, Twitter, Facebook groups, Slack

Timeline creation: Knight Lab Timeline

Video lectures: VoiceThread (OWL), Screen-casted PowerPoint or Prezi

Webinars: Collaborate UE (OWL), Skype

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

Accessing and Managing Information

identify, locate, select, choose, label, interpret, organize, translate, differentiate, compare, synthesize

	Types of Learning Activities	Example Tasks & Assessments
Engagement	Acquisition – obtaining new knowledge, skills, or values	Guided readings Video lectures Interactive modules/lessons Webinars (live virtual classrooms) Interview others
	Practice – adapt actions based upon feedback	Games for learning – repetition, recall Digital curation Collect and analyze data Search for and/or evaluate information and ideas Develop a mindmap or timeline Complete scaffolded work towards a final production, with feedback
Performance	Collaboration – learning through working with others	Small group projects Special interest groups sharing information on topics Peer feedback
	Production – consolidating and articulating understanding in an artifact or performance	Sharing digital productions (mindmaps, timelines, curated materials) Annotated bibliography Presentation Write/edit a Wikipedia entry

Technology-Enhanced Strategy and Example Tools

Data/Information Management: Course Readings (OWL), Mendeley, EndNote Basic, Zotero, Rayyan

Digital Curation: Scoop.it, Pinterest, Padlet, Evernote

Feedback: ComPAIR, Peergrade, Aropa, Turnitin Feedback Studio, Assignments (OWL), Forums (OWL)

Games: Kahoot!, Quizlet

Group Projects: Student Pages (OWL), Microsoft Teams, Microsoft Office Online, Google Drive (Docs)

Guiding readings: Resources (OWL), Course Readings (OWL), Lessons (OWL), Pressbooks

Interviewing: Collaborate UE, Skype

Sharing with Others: Forums, Twitter, Facebook groups, Slack

Submitting Work: OWL Tools such as Assignments, Tests & Quizzes, VoiceThread, Dropbox

Timeline creation: Knight Lab Timeline

Wikipedia: Wiki Edu

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

Solving Problems & Developing Plans

analyze, evaluate, apply, solve, test, construct, experiment, monitor, measure, estimate, predict

	Types of Learning Activities	Example Tasks & Assessments
Engagement	Investigation – explore, compare and critique	Conduct a lab experiment Complete a case study Collect and analyze data Develop a plan
	Practice – adapt actions based upon feedback	Complete practice problems Observe real or simulated professional practice Role play Complete scaffolded work towards a final production, with feedback
Performance	Discussion – articulating ideas	Present or discuss a case study Reflect on observations, practice, role play
	Production – consolidating and articulating conceptual understanding in an artifact or performance	Report, Lab report Proposal Design project Case study, practice problem assignments Presentation Poster, Infographic

Technology-Enhanced Strategy and Example Tools

Case Studies: Open Case Studies at UBC

Collaborative Data Collection/Analysis: Microsoft Excel Online, Google Sheets

Feedback: ComPAIR, Peergrade, Aropa, Turnitin Feedback Studio, Assignments (OWL), Forums (OWL)

Group Projects: Student Pages (OWL), Microsoft Teams, Word Online, Google Docs

Online Labs, Simulations: Labster, PhET Simulations

Open Data Sets: Government of Canada Open Data, loadb.org

Presentations: VoiceThread (OWL), Screen-casted PowerPoint or Prezi

Poster, Infographic Design: Canva, PowerPoint

Screen-casting: Collaborate UE (OWL), Screencast-o-matic

Submitting Written Work: OWL Tools such as Assignments, Tests & Quizzes, VoiceThread, Dropbox

Wikis: Wikipedia Edu

Writing Support: Western Writing Support Centre Handouts, WriteOnline.ca Tutorials

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

Performing Procedures and Demonstrating Techniques

model, demonstrate, practice, experiment, monitor, measure, estimate, test, teach, train

	Types of Learning Activities	Example Tasks & Assessments
Engagement	Investigation – explore, compare and critique	Conduct a lab experiment Complete a case study Collect and analyze data
	Practice – adapt actions based upon feedback	Complete practice problems Observe real or simulated professional practice Role play Complete scaffolded work towards a final production, with feedback
Performance	Discussion – articulating ideas	Present or discuss a lab/case study Reflect on observations, practice, or role play
	Production – consolidating and articulating conceptual understanding in an artifact or performance	Report, Lab report Prepare an illustrated manual Case study, practice problem assignments Presentation Poster, Infographic Video demonstration, instruction Lesson plan

Technology-Enhanced Strategy and Example Tools

Case Studies: Open Case Studies at UBC

Collaborative Data Collection/Analysis: Microsoft Excel Online, Google Sheets

Feedback: ComPAIR, Peergrade, Aropa, Turnitin Feedback Studio, Assignments (OWL), Forums (OWL)

Group Projects: Student Pages (OWL), Microsoft Teams, Word Online, Google Docs

Online Labs, Simulations: Labster, PhET Simulations

Open Data Sets: Government of Canada Open Data, loadb.org

Presentations: VoiceThread (OWL), Screen-casted PowerPoint or Prezi

Poster, Infographic Design: Canva, PowerPoint

Screen-casting: Collaborate UE (OWL), Screencast-o-matic

Submitting Work: OWL Tools such as Assignments, Tests & Quizzes, VoiceThread, Dropbox

Video Production & Hosting: Smartphone recording, iMovie, Powtoon, YouTube, Vimeo

Wikis: Wikipedia Edu

Writing Support: Western Writing Support Centre Handouts, WriteOnline.ca Tutorials

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

Thinking Critically and Making Judgements

analyze, assess, evaluate, critique, judge, argue, debate, reflect, hypothesize, predict

	Types of Learning Activities	Example Tasks & Assessments
Engagement	Investigation – explore, compare and critique	Analyze ideas and information in digital resources Collect and analyze data Search for and/or evaluate information and ideas Complete or develop a case study Observe real or simulated professional practice
	Collaboration – working with others to build and integrate ideas	Group projects Peer feedback Completing or developing a case study
Performance	Discussion – articulating ideas	Present a developed case study Debate Respond to others, provide feedback Critiquing others' ideas, work, responses
	Production – consolidating and articulating conceptual understanding in an artifact or performance	Essay, Report, Briefing Critique, Review Journal entries, Blog Presentation Writing/Editing a Wikipedia page

Technology-Enhanced Strategy and Example Tools

Blogs: Student Pages (OWL), WordPress; Scalar, Blogger, Google Sites

Case Studies: Open Case Studies at UBC

Data/Information Management: Course Readings (OWL), Mendeley, EndNote Basic, Zotero, Rayyan

Feedback: ComPAIR, Peergrade, Aropa, Turnitin Feedback Studio, Assignments (OWL), Forums (OWL)

Group Projects: Student Pages (OWL), Microsoft Teams, Microsoft Office Online, Google Drive (Docs)

Presentations: VoiceThread (OWL), Screen-casted PowerPoint or Prezi

Screen-casting: Collaborate UE (OWL), Screencast-o-matic

Submitting Written Work: OWL Tools such as Assignments, Tests & Quizzes, VoiceThread, Dropbox

Wikis: Wikipedia Edu, Student Pages (OWL)

Writing Support: Western Writing Support Centre Handouts, WriteOnline.ca Tutorials

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

Managing and Developing Oneself

observe, recognize, develop, build, express, articulate, advocate, prepare, become, envision, self-define

	Types of Learning Activities	Example Tasks & Assessments
Engagement	Investigation – explore, discover, consider	Reflective activities Setting self-selected learning goals Self-ethnography
	Practice – adapt actions based upon feedback	Journal, blog Progression towards self-selected learning goals Complete scaffolded work towards a final production, with feedback
Performance	Collaboration – learning through working with others	Small group project Development of a learning contract between a group Peer evaluation/feedback
	Production – consolidating and articulating conceptual understanding in an artifact or performance	ePortfolio Journal, blog Reflective essay Self- or peer-assessment

Technology-Enhanced Strategy and Example Tools

ePortfolios: Student Pages (OWL), WordPress, Google Sites, Mahara, Chalk & Wire

Feedback: ComPAIR, Peergrade, Aropa, Turnitin Feedback Studio, Assignments (OWL), Forums (OWL)

Group Projects: Student Pages (OWL), Microsoft Teams, Word Online, Google Docs

Journals, Blogs: Student Pages (OWL), WordPress; Scalar, Blogger, Google Sites

Learning contracts: Microsoft Office Online, Google Drive (Docs)

Progression tracking: Trello, Padlet

Reflection: VoiceThread (OWL)

Self-assessment: Google Drive (Forms), Tests & Quizzes (OWL), Checklist feature in Lessons (OWL)

Submitting Written Work: OWL Tools such as Assignments, Tests & Quizzes, VoiceThread, Dropbox

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

Creative Design and Expression

create, compose, perform, recite, practice, originate, produce, demonstrate, exhibit, illustrate, instruct

	Types of Learning Activities	Example Tasks & Assessments
Engagement	Investigation – explore, develop plans	Storyboard Develop a plan, Draft a design
	Practice – adapt actions based upon feedback	Rehearsal Beta-testing, experiments, trial runs Complete scaffolded work towards a final production, with feedback
Performance	Collaboration – learning through working with others	Small group work Giving/receiving feedback on practice performance
	Production – consolidating and articulating conceptual understanding in an artifact or performance	Video performance (live or recorded) Design project Audio recording, podcast Production of artwork Portfolio Critique Lesson plan Reflective Essay

Technology-Enhanced Strategy and Example Tools

Critique: VoiceThread (OWL), Collaborate UE

Feedback: ComPAIR, Peergrade, Aropa, Turnitin Feedback Studio, Assignments (OWL), Forums (OWL), VoiceThread (OWL)

Group Projects: Student Pages (OWL), Microsoft Teams, Word Online, Google Docs

Storyboarding: Canva, Plot, Boards, Padlet

Submitting Work: OWL Tools such as Assignments, Tests & Quizzes, VoiceThread, Dropbox

Video Performance (live): Collaborate UE, Skype

Video Performance (recorded): Video upload (Student Pages (OWL), Assignments (OWL), YouTube, Vimeo), VoiceThread (OWL)

Technology-Enhanced Tasks & Assessments by Domains of Learning Outcomes

Communication

Present, argue, debate, negotiate, convey, propose, demonstrate, teach, train, express, defend, respond

	Types of Learning Activities	Example Tasks & Assessments
Engagement	Investigation – explore, develop plans	Interview others Develop a plan Draft an argument
	Practice – adapt actions based upon feedback	Rehearsal Beta-testing, experiments, trial runs Complete scaffolded work towards a final production, with feedback Role play
Performance	Collaboration – learning through working with others	Small group work Giving/receiving feedback on practice performance
	Production – consolidating and articulating understanding in an artifact or performance	Debate, Mock trials Objective Structured Clinical Examination (OSCE) Reflective essay Produce an informational flyer, poster, brochure

Technology-Enhanced Strategy and Example Tools

Debate, Mock Trials: Collaborate UE (OWL), Skype

Feedback: ComPAIR, Peergrade, Aropa, Turnitin Feedback Studio, Assignments (OWL), Forums (OWL), VoiceThread

Forums: Forums (OWL), VoiceThread (OWL), Piazza

Group Projects: Student Pages (OWL), Microsoft Teams, Word Online, Google Docs

Interviewing others: Collaborate UE, Skype

OSCE: VoiceThread (OWL)

Submitting Work: OWL Tools such as Assignments, Tests & Quizzes, VoiceThread, Dropbox