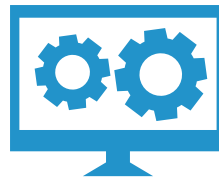


# TESTING & EXPERIMENTING



LIVE

Students work with physical apparatus and/or computer simulations to test a theory, develop an idea, solve a problem etc.

## Core Enhancing Technology



## Key Enhancements

- **Experiential Learning** — students experience the real-world manifestation of a theory, concept or idea.
- **Higher Order Skills** — develops more complex thinking skills such as analysis and problem solving.
- **Retention**— concrete experiences are shown to support learning retention.

## Teaching and Learning Ideas

- Using mobile devices, students can record video of a physical activity, experiment or process, then by connecting and casting their video to the Sony Vision Exchange system, it allows the whole class and the instructor to easily view that video and give feedback. The video can be paused and freeze-frames can be annotated to emphasise key imagery, and such annotated images then saved as snapshots for future reflection, reinforcement and revision.
- Using Panopto to record sessions or part-sessions allows any physical activity, experiment or process to be captured and made available for repeated viewing and further analysis.
- Microsoft Excel's formula functionality enables data-modelling and visualisation. Through Office 365, Excel spreadsheets can be shared allowing several people to have access to the same content to facilitate interaction and collaboration.
- Using classroom response systems such as Wordwall can enable opinion-based tests and experiments to be run in-class efficiently (see also Voting and Polling guide). Also, student predictions could be collected prior to an experiment, prompting further discussion once actual results are known.
- There are many existing simulations available on the internet which can support in-class testing and experimentation. For example, <https://economics-games.com/>

## Try Also...

The Open Educational Resources website MERLOT ([www.merlot.org](http://www.merlot.org)) contains many links to teaching resources including online simulations.

## Available Help and Guides

Sony Vision Exchange User Guide

Getting Started with Panopto Pt.1 — Making a Video

LanSchool User Guide