

Intel® Teach Program

Thinking with Technology Course

Overview

Description

The Intel Teach Thinking with Technology Course focuses on using the internet for education in new and constructive ways; the course trains teachers to enhance their students' higher order thinking skills using a set of free online thinking tools available at the Intel Education website: www.intel.com/education/au.

Teachers learn how to integrate into their curriculum these unique online thinking tools that are designed for students to visually represent their understanding of complex and interconnected issues.

Thinking with Technology is 24 to 40 hours of hands-on, face-to-face professional development, and offers significant flexibility through its implementation options. Master Trainers (MTs) receive 32 or 40 hours (11 modules) of instruction; each MT then determines which of several course options to deliver to their Participant Teachers (PTs), from 24 to 40 hours (7 to 11 modules).

Goal

The Intel Teach Thinking with Technology Course builds on effective technology integration skills and teachers leave the course with a standards/syllabus outcomes based unit plan and implementation strategies to improve students' higher order thinking with the use of free online tools.

Objectives

In this course, participants will:

- Learn instructional strategies for addressing and assessing thinking skills using technology to increase opportunities for effective student collaboration, student-teacher interactions, and the inquiry process.
- Create an instructional plan, sample projects, and assessment(s) that integrate the use of online thinking tools, are aligned to standards/syllabus outcomes, and support a project approach to learning and authentic inquiry.
- Understand the online thinking tools and their workspaces and how to manage a classroom project using an online environment.
- Leave prepared to effectively implement a ready-to-use project using the *Visual Ranking*, *Seeing Reason* and/or *Showing Evidence Tools*, which will help their students to manage, explore, and communicate their understanding of complex and interconnected issues.

In the *Visual Ranking* portion of the course, participants will learn strategies and create a technology-enhanced project to help students:

- Establish criteria to evaluate and prioritise information.
- View issues from multiple perspectives and make decisions by seeking consensus

and negotiating new options.

- Collaborate with peers and community members.

In the *Seeing Reason* portion of the course, participants will learn strategies and create a technology-enhanced project to help students:

- Understand complex problems or systems that involve cause-and-effect relationships.
- Discuss, represent, and defend interpretations of problems or systems that involve cause and effect.
- Use mathematical reasoning and understanding across the curriculum through the use of logic, critical thinking, and the visual representation of direct and inverse relationships.

In the *Showing Evidence* portion of the course, participants will learn strategies and create a technology-enhanced project to help students:

- Develop effective argumentation skills.
- Develop strategies for encouraging discussion as students make claims, support their claims with evidence, debate differences, and reach conclusions.
- Analyse and evaluate criteria for their decisions.

Modules

Module 1	Targeting Thinking in the Classroom
Module 2	Designing Projects
Module 3	Creating Curriculum Framing Questions to Support Thinking Skills
Module 4	Planning Student-Centred Assessment
Module 5	Using the Visual Ranking Tool to Target Thinking Skills
Module 6	Considering the Visual Ranking Tool for Your Unit
Module 7	Using the Seeing Reason Tool to Target Thinking Skills
Module 8	Considering the Seeing Reason Tool for Your Unit
Module 9	Using the Showing Evidence Tool to Target Thinking Skills
Module 10	Considering the Showing Evidence Tool for Your Unit
Module 11	Completing Your Unit