

## **TIM: Table of Summary Descriptors**

This table contains the summary descriptors for each cell of the Technology Integration Matrix (TIM).

The Technology Integration Matrix (TIM) provides a framework for describing and targeting the use of technology to enhance learning. The TIM incorporates five interdependent characteristics of meaningful learning environments: active, collaborative, constructive, authentic, and goal-directed. These characteristics are associated with five levels of technology integration: entry, adoption, adaptation, infusion, and transformation. Together, the five characteristics of meaningful learning environments and five levels of technology integration create a matrix of 25 cells, as illustrated below.

LEVELS OF LEVELS OF TECHNOLOGY INTEGRATION CHARACTERISTICS OF THE LEARNING ENVIRONMENT	ENTRY LEVEL The teacher begins to use technology tools to deliver curriculum content to students.	ADOPTION LEVEL The teacher directs students in the conven- tional and procedural use of technology tools.	ADAPTATION LEVEL The teacher facilitates the students' exploration and independent use of technology tools.	INFUSION LEVEL The teacher provides the learning context and the students choose the technology tools.	TRANSFORMATION LEVEL The teacher encourages the innovative use of technology tools to facil- itate higher-order learn- ing activities that may not be possible without the use of technology.	chnology at the University of
ACTIVE LEARNING Students are actively engaged in using technology as a tool rather than passively receiving information from the technology.	Information passively received	Conventional, proce- dural use of tools	Conventional independent use of tools; some student choice and exploration	Choice of tools and regular, self-directed use	Extensive and uncon- ventional use of tools	for Instructional Teo
<b>COLLABORATIVE LEARNING</b> Students use technology tools to col- laborate with others rather than working individually at all times.	Individual student use of technology tools	Collaborative use of tools in conventional ways	Collaborative use of tools; some student choice and exploration	Choice of tools and regular use for collaboration	Collaboration with peers, outside experts, and others in ways that may not be possible without technology	he Florida Center 1
<b>CONSTRUCTIVE LEARNING</b> Students use technology tools to connect new information to their prior knowledge rather than to passively receive information.	Information delivered to students	Guided, conventional use for building knowledge	Independent use for building knowledge; some student choice and exploration	Choice and regular use for building knowledge	Extensive and unconventional use of technology tools to build knowledge	as developed by t
AUTHENTIC LEARNING Students use technology tools to link learning activities to the world beyond the instructional setting rather than working on decontextualized assignments.	Technology use unrelat- ed to the world outside of the instructional setting	Guided use in activities with some meaningful context	Independent use in activities connected to students' lives; some student choice and exploration	Choice of tools and regular use in meaningful activities	Innovative use for higher-order learning activities connected to the world beyond the instructional setting	teoration Matrix w
GOAL-DIRECTED LEARNING Students use technology tools to set goals, plan activities, monitor progress, and eval- uate results rather than simply completing assignments without reflection.	Directions given; step-by-step task monitoring	Conventional and pro- cedural use of tools to plan or monitor	Purposeful use of tools to plan and monitor; some student choice and exploration	Flexible and seamless use of tools to plan and monitor	Extensive and higher order use of tools to plan and monitor	The Technoloav In

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