

## Elements of Engaged Learning Technologies

Variable	Engaged Learning Indicator	Indicator Definition
<b>Vision</b>	<b>Responsible for Learning</b>	Students are actively involved in setting goals, choosing tasks, developing assessments, etc. Students have the big picture of learning and the steps in mind.
	<b>Strategic Energized by Learning</b>	Students develop a repertoire of thinking/learning strategies. Students have a passion for learning. They are not dependent upon rewards.
	<b>Collaborative</b>	Students develop new understandings in their conversations and work with others.
<b>Tasks</b>	<b>Authentic Challenging Multidisciplinary</b>	Real world jobs. Jobs are interesting to students. Difficult enough to be interesting, but not totally frustrating. Integrates information from several disciplines to solve problems.
	<b>Performance-Based Generative</b>	Performance is for a real audience. Performance serves a real purpose. Assessments mean something to students. Students may produce information, products, services.
	<b>Seamless and ongoing Equitable</b>	Students learn during assessment. Assessment is a portion of instruction. Culture fair
<b>Instructional Model</b>	<b>Interactive</b>	Teacher and program are responsive to the students' needs, requests, etc.
	<b>Generative</b>	Instruction is focused upon constructing meaning, providing meaningful activities and experiences.
<b>Learning Context</b>	<b>Collaborative</b>	Students are part of a learning community. Activities are collaborative.
	<b>Knowledge-Building Empathic</b>	Learning experiences are set up to bring many perspectives to solving problems. Learning environment is set up to value diversity, multiple perspectives, and the strengths of students.
<b>Grouping</b>	<b>Heterogeneous Equitable</b>	Small groups contain students with different ability levels and backgrounds. Groups are organized so that all students get a chance for meaningful learning during some portion of their school year.
	<b>Flexible</b>	Groups are organized for different purposes so each student is a member of different groups. Each student works with different people.
<b>Teacher's Roles</b>	<b>Facilitator</b>	Engages students. Negotiates, stimulates. Directs project work, but does not control.
	<b>Guide</b>	Helps students construct their own meaning by modeling, mediating, redirecting focus, providing options.
	<b>Co-Learner/Co-Investigator</b>	Teacher considers himself/herself to be a learner. Teacher is willing to take risks and explore areas outside his/her expertise. Teacher collaborates with other teachers.
<b>Students' Roles</b>	<b>Explorer</b>	Students have the opportunity to explore. Technology tools stretch ideas and research.
	<b>Learning Apprentice</b>	Teachers act as mentors and coaches. Teachers encourage students to do real research.
	<b>Teacher</b>	Students are encouraged to teach others in informal and informal helping sessions.
	<b>Producer</b>	Students develop products of real use for themselves and others.

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<b>Access</b>	<b>Connective</b>	<b>Connected to the Internet and other Resources</b>
	<b>Ubiquitous</b>	<b>Equipment is pervasive and conveniently located for individual rather than central use.</b>
	<b>Interconnective</b>	<b>Students and teachers interact by communicating and collaborating in diverse ways.</b>
	<b>Designed for Equitable Use</b>	<b>All students have access to rich, challenging learning. They interact, and they create useful products.</b>
<b>Operability</b>	<b>Interoperable</b>	<b>Capable of exchanging data easily among diverse formats and technologies.</b>
	<b>Open architecture</b>	<b>Allows users to access various vendor's software.</b>
	<b>Transparent</b>	<b>Users are not aware of how the hardware and software operate.</b>
<b>Organization</b>	<b>Distributed</b>	<b>Technology and systems are not centralized, but exist across a number of people, environments, and situations.</b>
	<b>Designed for user conditions</b>	<b>Users can provide input, users can contribute resources on demand.</b>
	<b>Designed for collaborative projects</b>	<b>Technology responds to the user. Teachers are able to diagnose and prescribe new learning.</b>
<b>Engagability</b>	<b>Access to challenging tasks</b>	<b>Technology allows access to tasks, data, and learning opportunities that stimulate thought and inquiry.</b>
	<b>Enables learning by doing</b>	<b>Technology offers access to stimulating, goal-based learning and real-world problems.</b>
	<b>Provides guided participation</b>	<b>Technology responds to the learner, and teacher is able to prescribe new learning.</b>
<b>Ease of Use</b>	<b>Effective helps</b>	<b>Technology provides help that are more than glossaries. The software gives demonstrations of procedures and shows how tasks are performed.</b>
	<b>User friendliness/ User control</b>	<b>The technology is free from overly complex procedures. The technology facilitates the user in acquiring data and tools on demand.</b>
	<b>Fast</b>	<b>The technology has fast processing speed. The technology is not down for long periods of time.</b>
	<b>Available training and support</b>	<b>Training is readily available and convenient. Ongoing support is available.</b>
	<b>Provides just enough information, just in time</b>	<b>Technology allows for random access, multiple points of entry, and different levels and types of information.</b>
<b>Functionality</b>	<b>Diverse tools</b>	<b>Technology enables access to the full diversity of generic information and context-specific tools basic to learning in the 21st century.</b>
	<b>Media use</b>	<b>Technology provides the ability to use multimedia techniques.</b>
	<b>Promotes programming and authoring</b>	<b>The technology provides the tools (e.g., coaches, wizards, assistants) that are used to make other tools.</b>
	<b>Supports project design skills</b>	<b>The technology facilitates the development of skills related to project design and implementation.</b>