Notes on These Slides

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The Technology Integration Matrix: Introducing the Five Characteristics
Levels of Technology Integration

Characteristics of the Learning Environment
Five Characteristics of the Learning Environment

Each row of the Technology Integration Matrix represents one of the five characteristics:

- Active Learning
- Collaborative Learning
- Constructive Learning
- Authentic Learning
- Goal-Directed Learning.
Characteristics of a Meaningful Learning Environment

- Active
- Collaborative
- Constructive
- Authentic
- Goal-Directed
Characteristics of a Meaningful Learning Environment

Students are actively engaged in using technology as a tool rather than passively receiving information from the technology.

- **Transformation Level:** Extensive and unconventional use of tools
- **Infusion Level:** Choice of tools and regular, self-directed use
- **Adaptation Level:** Conventional independent use of tools; some student choice and exploration
- **Adoption Level:** Conventional, procedural use of tools
- **Entry Level:** Information passively received
Characteristics of a Meaningful Learning Environment

- **Collaborative**
  - Students use technology tools to collaborate with others rather than working individually at all times.

- **ENTRY LEVEL:** Individual student use of tools
- **ADOPTION LEVEL:** Collaborative use of tools in conventional ways
- **ADAPTATION LEVEL:** Collaborative use of tools; some student choice and exploration
- **INFUSION LEVEL:** Choice of tools and regular use for collaboration
- **TRANSFORMATION LEVEL:** Collaboration with peers, outside experts, and others in ways that may not be possible without technology
Characteristics of a Meaningful Learning Environment

Students use technology tools to connect new information to their prior knowledge rather than to passively receive information.

- **TRANSFORMATION LEVEL:** Extensive and unconventional use of technology tools to build knowledge.
- **INFUSION LEVEL:** Choice and regular use for building knowledge.
- **ADAPTATION LEVEL:** Independent use for building knowledge; some student choice and exploration.
- **ADOPTION LEVEL:** Guided, conventional use for building knowledge.
- **ENTRY LEVEL:** Information delivered to students.
Characteristics of a Meaningful Learning Environment

**Authentic**

Students use technology tools to link learning activities to the world beyond the instructional setting rather than working on decontextualized assignments.

- **ENTRY LEVEL:** Technology use unrelated to the world outside of the instructional setting
- **ADOPTION LEVEL:** Guided use in activities with some meaningful context
- **ADAPTATION LEVEL:** Independent use in activities connected to students' lives; some student choice and exploration
- **INFUSION LEVEL:** Choice of tools and regular use in meaningful activities
- **TRANSFORMATION LEVEL:** Innovative use for higher-order learning activities connected to the world beyond the instructional setting
Characteristics of a Meaningful Learning Environment

**Goal-Directed**

Students use technology tools to set goals, plan activities, monitor progress, and evaluate results rather than simply completing assignments without reflection.

- **ENTRY LEVEL:** Directions given, step-by-step task monitoring
- **ADOPTION LEVEL:** Conventional and procedural use of tools to plan or monitor
- **ADAPATION LEVEL:** Purposeful use of tools to plan and monitor; some student choice and exploration
- **INFUSION LEVEL:** Flexible and seamless use of tools to plan and monitor
- **TRANSFORMATION LEVEL:** Extensive and higher-order use of tools to plan and monitor
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