Step **Two**

Using the Tech Matrix in your Classroom

Florida's
TECHNOLOGY INTEGRATION MATRIX

- A common language for technology integration and professional development
- 5 Attributes of Learning Environments (Active, Collaborative, Constructive, Authentic, and Goal-Directed)
- 5 Levels of Technology Integration (Entry, Adoption, Adaptation, Infusion, Transformation)

✤ ready made and adapted by educational technology teachers and administrators

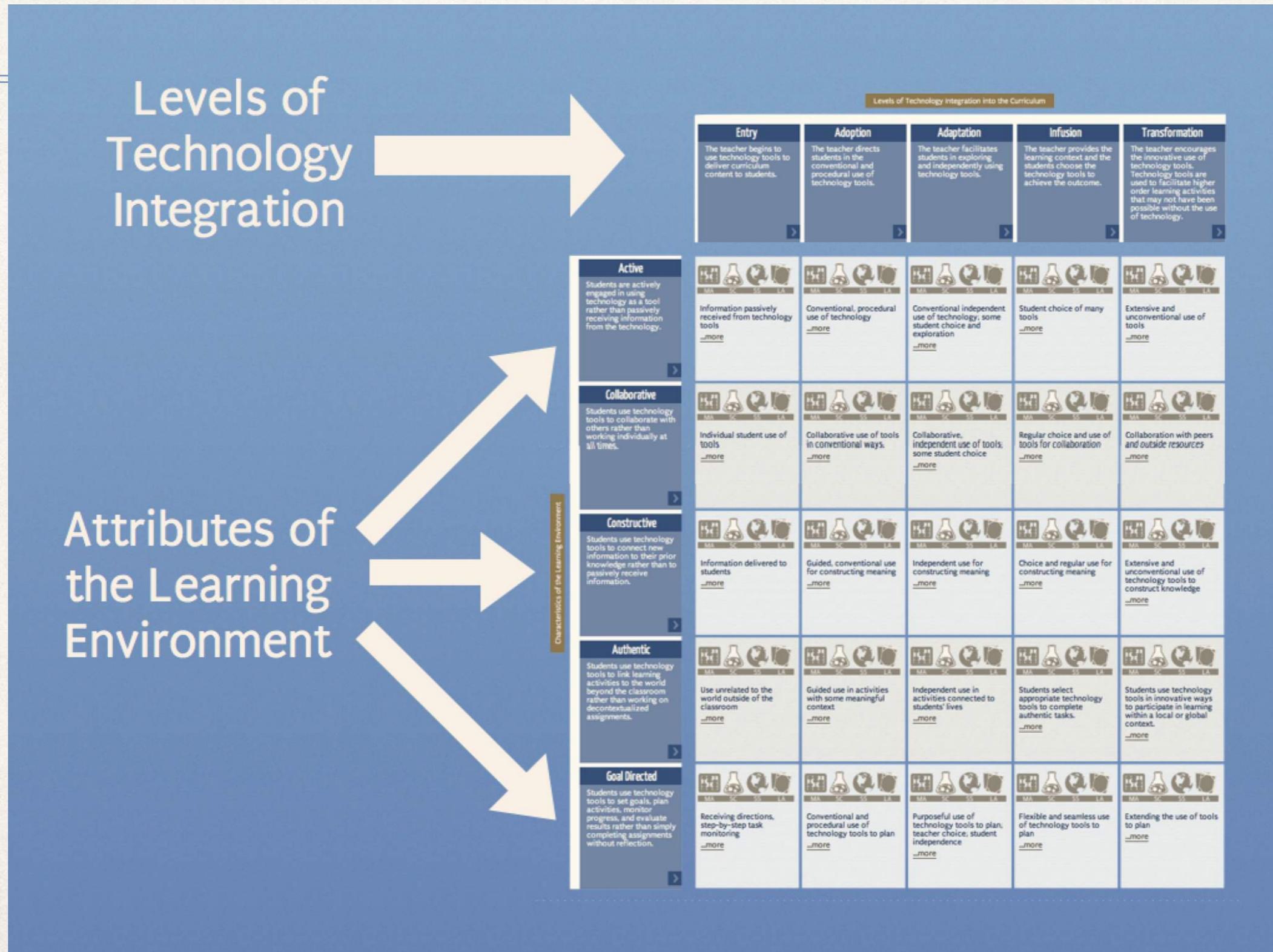✤ I will show you how to access and use it

Technology Skills Matrix

Produced by the Florida Center for Instructional Technology, University of South Florida

The tech skills matrix can guide us on how to help Alt Students use technology for testing.   Specifically, "the Technology Integration Matrix (TIM) illustrates how teachers can use technology to enhance learning for K-12 students. The TIM **incorporates five interdependent characteristics of meaningful learning environments:** active, constructive, goal directed (i.e., reflective), authentic, and collaborative (Jonassen, Howland, Moore, & Marra, 2003). The TIM associates **five levels of technology integration** (i.e., entry, adoption, adaptation, infusion, and transformation) with each of the five characteristics of meaningful learning environments. **Together**, the five levels of technology integration and the five characteristics of meaningful learning environments create a matrix of 25 cells."

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Active Level of the Tech Matrix

Most applicable to NCSC Alt Testing

	Entry	**Adoption**	**Adaptation**	**Infusion**	**Transformation**
	The teacher begins to use technology tools to deliver curriculum content to students.	The teacher directs students in the conventional and procedural use of technology tools.	The teacher facilitates students in exploring and independently using technology tools.	The teacher provides the learning context and the students choose the technology tools to achieve the outcome.	The teacher encourages the innovative use of technology tools. Technology tools are used to facilitate higher order learning activities that may not have been possible without the use of technology.
Active Students are actively engaged in using technology as a tool rather than passively receiving information from the technology.	Information passively received ...more	Conventional, procedural use of tools ...more	Conventional independent use of tools; some student choice and exploration ...more	Choice of tools and regular, self-directed use ...more	Extensive and unconventional use of tools ...more

Entry to Transformation - from **Teacher-Directed** to **Student-Centered**

Recommendations for Each Cell

Entry

The teacher begins to use technology tools to deliver curriculum content to students.

Active

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

MA   SC   SS   LA

Information passively received

...more

Each cell corresponds to the level of the student and the level of technology use of the teacher in the classroom.

For each cell, there are links for four subjects:

MA - Mathematics
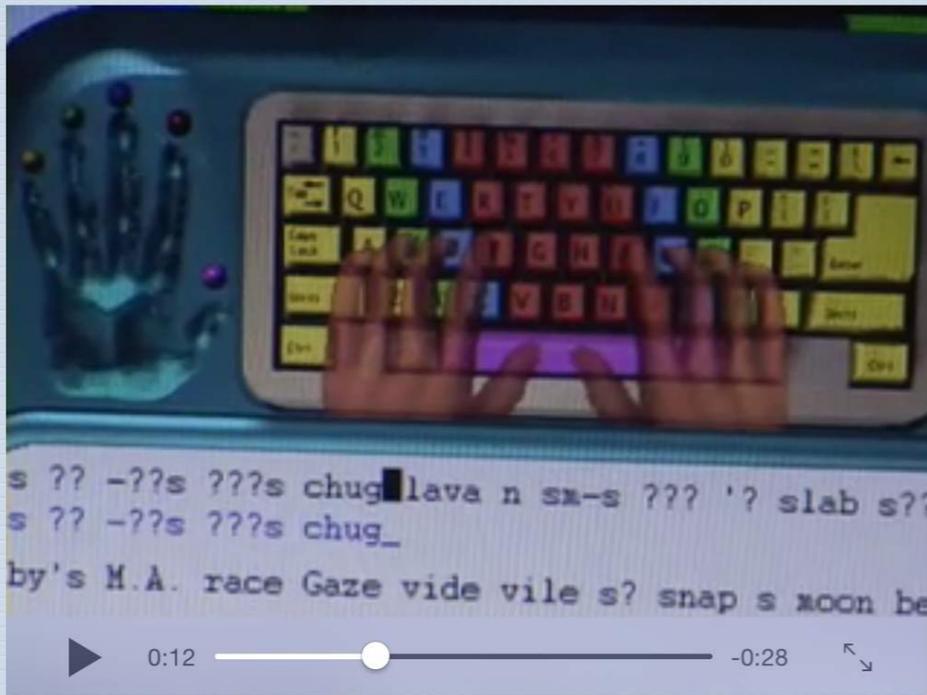
SC - Science

SS - Social Studies

LA - Language Arts

Click it and you will see links to video resources.

Active Level *of the* Tech Matrix

Most applicable to NCSC Alt Testing

HOME | MATRIX | ABOUT | EVALUATION TOOLS | RESOURCES | GRADE LEVEL INDEX | DIGITAL TOOLS INDEX | CREDITS

Keyboarding Skills

0:12 -0:28

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Active Learning | Entry Level | Language Arts

Objectives

- Increase typing speed
- Increase spelling accuracy
- Become more familiar and competent in using the keyboard

Procedure

- Students complete the lesson using individual desktop computers with headsets.
- Students use the TyperShark software that was downloaded on the desktops.
- Students type words on the sides of sharks to zap them as they swim across the screen.
- The program assists students with typing speed and spelling accuracy.

Sunshine State Standards

- LA.D.1.2.1

NETS Profiles for Technology Literate Students

- Use keyboards and other common input and output devices (including adaptive devices when necessary) efficiently and effectively.
- Use technology resources (e.g., calculators, data collection probes, videos, educational software) for problem solving, self-directed learning, and extended learning activities.

Materials

- Desktop computers
- Headsets
- TyperShark software, free download available from PopCap Games TyperShark

Grade Level: 3-5

ACTIVE

Entry	MA	SC	SS	LA
Adoption	MA	SC	SS	LA
Adaptation	MA	SC	SS	LA
Infusion	MA	SC	SS	LA
Transformation	MA	SC	SS	LA

COLLABORATIVE

Entry	MA	SC	SS	LA
Adoption	MA	SC	SS	LA
Adaptation	MA	SC	SS	LA
Infusion	MA	SC	SS	LA
Transformation	MA	SC	SS	LA

CONSTRUCTIVE

Entry	MA	SC	SS	LA
Adoption	MA	SC	SS	LA
Adaptation	MA	SC	SS	LA
Infusion	MA	SC	SS	LA
Transformation	MA	SC	SS	LA

AUTHENTIC

Entry	MA	SC	SS	LA
Adoption	MA	SC	SS	LA
Adaptation	MA	SC	SS	LA
Infusion	MA	SC	SS	LA
Transformation	MA	SC	SS	LA

GOAL-DIRECTED

Entry	MA	SC	SS	LA
Adoption	MA	SC	SS	LA
Adaptation	MA	SC	SS	LA
Infusion	MA	SC	SS	LA
Transformation	MA	SC	SS	LA