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Assignment 3.9 Diversity with Technology

Scenario 1: Shawna has very limited vision. She is unable to see standard size letters and words.

The adaptive technology I have chosen to assist Shawna is Telesensory's All in One machine. <http://www.telesensory.com/product.aspx?category=transportable&id=115> This machine allows for the demand by students and professionals for a movable product with multi-tasks to be met. It is a single-structured system, versatile and with great flexibility in control and viewing. It incorporates widescreen LCD/LED monitor and extensive continuous zoom magnification. This product will be great for Shawna to enlarge text for her limited eye sight. I can supply her with written copies of my lesson plan for the day and any supporting documents to enhance the concept I am teaching. She can then place them on the machine and adjust the magnification to the setting where she can see the best. I can allow her to carry it to her other classes or keep it in my classroom for her.

Sample Lesson Plan for Shawna:

Learner Assessment

Shawna has trouble with her vision and is unable to see standard size letters and words.

State Objectives

Shawna will be able to magnify her vision to standard letter and word size to improve her schoolwork.

Select Media

Telesensory All in One machine

Paper copy of literary excerpt from the book House on Mango Street provided by the teacher

Utilize Media

Shawna will use the Telesensory machine to increase magnification of the document provided by the teacher. She will read the document (literary excerpt) and write her interpretation of the excerpt (short summary).

Require Learner Participation

Shawna will read the House on Mango Street excerpt and write a summary.

Evaluate the Lesson

Teacher will observe Shawna using the Telesensory machine, assist with its function if needed, and read Shawna's summary for grading.

Scenario 2: Carl has speech and motor disabilities. He has difficulty with his fine motor skills, making writing almost impossible. In addition, Carl's speech disability impedes communication with his teachers and other classmates.

The adaptive technology I have chosen for Carl is Tobii Communicator at <http://www.tobii.com/en/assistive-technology/global/products/software/tobii-communicator/>. Tobii Communicator is an alternative and augmentative communication (AAC) software

converts text and symbols into clear speech. This software will give Carl the option to use symbols and pictures to communicate with teachers, classmates, family, and friends. Since writing is a difficult task for Carl, the software has a keyboard layout for text available. The full range of input methods will help Carl strengthen his fine motor skills.

The following link is a good source for funding for this type of software.

<http://www.tobii.com/en/assistive-technology/global/funding/>

Sample Lesson Plan for Carl:

Learner Assessment

Carl has difficulty writing and communicating due to his speech and motor disabilities.

State Objectives

To improve Carl's ability to communicate and write to 75% accuracy.

Select Media

Tobii Communicator software (AAC device)

Laptop checked out from the school library

Utilize Media

Carl will utilize the Tobii Communicator software on the laptop to communicate with the school librarian to check out books. This task can be done in collaboration with the school SLP to introduce Carl to the concept of using an AAC device to communicate. It will also increase his fine motor skill ability by having him use his fingers to point/type the symbols and pictures to communicate.

Require Learner Participation

Carl will browse the school media center for books he wants to check out. He will use his AAC device to request assistance from the librarian.

Evaluate the Lesson

Teacher will observe Carl as he communicates with the librarian to request his books.

Teacher will assist as needed.

Scenario 3: Serena's primary language is Spanish and she is struggling with the readings from the assigned textbook for your class. Realizing that Serena needs audio-visual enriched materials to supplement the textbook, you locate several technology-related resources.

Serena can benefit from the audio-visual games on Internet Polyglot.

<http://www.internetpolyglot.com/>. This online resource offers lessons such as tutorial slide shows that will allow Serena to learn English by pictures and sounds, guessing games, typing games, and matching games. Another online resource is http://www.esl.net/esl_resources.html. This website has interactive video games with free educational videos to learn English. It also has online ESL listening quizzes and activities.

Sample Lesson Plan for Serena:

Learner Assessment

Serena is a primary Spanish speaker struggling with assigned reading from English textbooks.

State Objectives

To improve Serena's ability to read and understand English to 90% accuracy.

Select Media

Computer/Internet

Utilize Media

Serena will access <http://www.internetpolyglot.com/> and click on the tutorial slide show. When completed, she will then click on the matching game.

Serena will also access <http://a4esl.org/> and take the grammar and vocabulary quizzes.

Require Learner Participation

Serena will watch the tutorial slide show on pictures and English words. She will test her knowledge by playing the matching game and taking the vocabulary quizzes.

Evaluate the Lesson

Teacher will observe Serena playing the matching game and quizzes.

Teacher will assist as needed.