South Dakota State University

ECE 470: Early Childhood Inclusion Strategies

Concepts addressed:
Curriculum and Instruction: Technology: Appropriate use of technology for students with special needs

Students should refer to:

Specifically, students should review:
I. Computers’ positive qualities when working with children who have disabilities
   a. Have infinite patience
   b. Have continuous energy
   c. Designed to support children as they get closer to the right answer
   d. Under control of the children who use them.
   e. Can be used alone or with a friend.
   f. Repeated learning environment for children who have cognitive delays
   g. Encourage independent learning for children who have cognitive delays & who are gifted/talented
   h. Cause & Effect relationships for children who have hearing impairments

II. Choices in software
   a. Open-ended, supporting the children’s interests
   b. Flexible, high ceiling of learning
   c. Interactive, learning for cause and effect.
   d. Encourage children to use the word processor software and the email communication software correctly.
   e. Use the accessibility software for visual aids – high contrast, larger fonts, etc.

III. Input device modifications-technical assistance
      i. Type I: Mechanical ventilation
      ii. Type II: Prolonged intravenous nutrition or drug therapy
      iii. Type III: Support for tracheostomy tube care
      iv. Type IV: Cardio respiratory monitoring, kidney dialysis or ostomy care.
   b. Switches – foot, tongue, face, shoulder, and eye switches
   c. Voice modulators
   d. Speech synthesizers
   e. Touch windows

IV. Other Digital Equipment
   a. Teach to use digital camera
      i. Increase memory skills
      ii. Increase social skills
      iii. Communicating with families of children who are ELL
      iv. Sequencing events of the day for children who have developmental delays
b. Use voice synthesizers so that are familiar with them.
c. Internet – developing own websites with children
d. Watching closed captioning and foreign films with English subtitles for children who have hearing impairments.

**Helpful websites include:**

**Children’s computer sites:**
National Geographic: [http://www.nationalgeographic.com](http://www.nationalgeographic.com)
OWL: [http://www.owl.on.ca/](http://www.owl.on.ca/)
Reading Rainbow: [http://gpn.unl.edu/rainbow/](http://gpn.unl.edu/rainbow/)
Sesame Street: [http://www.sesameworkshop.org](http://www.sesameworkshop.org)