

Cognitive Support Technologies ...The Missing Link

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Cognitive Support Technologies

Helping to Build Independence for :

Individuals with Intellectual and Developmental
Disabilities

Individuals with Traumatic Brain Injury

Seniors experiencing problems with memory

Anyone learning a complex or difficult task

Cognitive Support Technologies Profile



- Blake is 17 years old
- Down Syndrome
- Active learner
- Very social
- Easily distracted
- Auditory processing challenges
- Visual supports helpful

Profile: Blake Satterfield



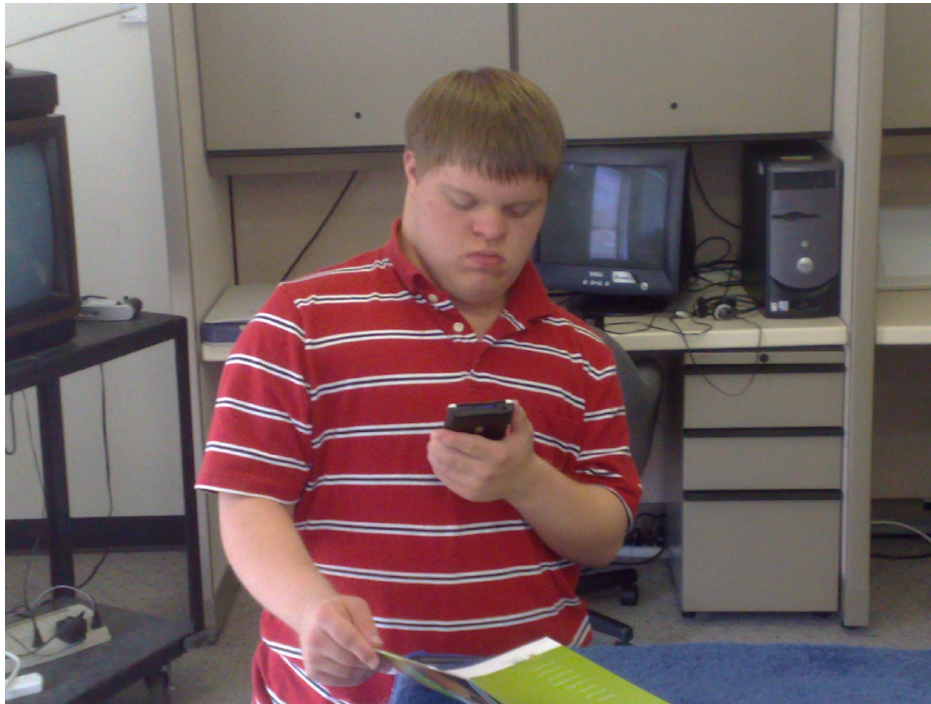
- Community Based Instruction program
- Daily excursions to local businesses
- Practice job skills on work site
- Supervised by school staff and local business employees

Profile: Blake Satterfield



- Easily distracted
- Disproportionate staff time resources required
- Needed support to work independently

Profile: Blake Satterfield



- Cognitive Support Technology
 - Visual Assistant
 - Task steps sequentially presented
 - Visual support for each step
 - Schedule Assistant
 - Reminders, anticipate what comes next
 - Clean up
 - End of break

Environments that may require Cognitive Support

Academics

Computer Use

Community Inclusion

Community Living

Leisure

Employment

Communication

Self-regulation

Mobility

Environmental Control

What is CST ?

Here, cognitive support refers to the assistive aspects of technology that enhance the mental capabilities and avoid the limitations of users.

Functions of CST...

Alert a person

Give information in manageable increments

Give personalized directions about what to do

Give feedback about performance

CST: Research-Based Interventions

Specific Studies....

Money management

Decisions about transition

Using an ATM

Making decisions within a task sequence

Learn new computer skills

Express job preferences

Use the Internet more independently

Choose foods for menu planning

Follow a schedule

CST: Research-Based Interventions

General Categories of Focus....

Access to mainstream/everyday technologies

Computers

Web

Email

Cell Phones

Prompting

Schedule based

Task based

Smart Living

Survey tools for self-determination

Results of the Research

Fewer external prompts

Fewer errors

More tasks successfully completed

More complex tasks

People Who Use CST Can...

Stay on track while on the job or at school

Follow and stay on schedule.

Maintain communication with family members,
friends,
and caregivers

Access a simplified computer desktop, internet
and/or e-mail

CST can decrease...

Need for prompts

Number of errors

Need for support

Cost of care

Caregiver fatigue

CST can increase...

Independence

Accuracy of task-completion

Self-management

Self-instruction and monitoring

Self determination

Autonomy

Social acceptance



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