

Using Universal Design for Learning (UDL) to Support Students with Significant Cognitive Disabilities in Learning Science

Part 1

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Keystone Assessment

Goals

Participants will:

1. Use the UDL Guidelines to support students with significant disabilities in accessing the Next Generation Science Standards

Three Sets of Brain Networks

Recognition Networks

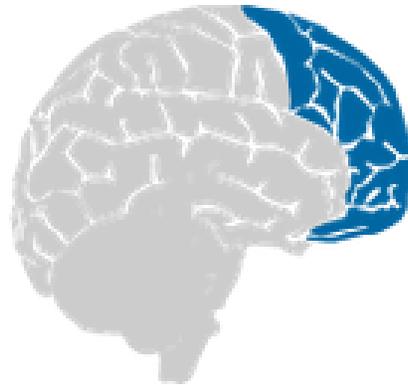
The "what" of learning



How we gather facts and categorize what we see, hear, and read. Identifying letters, words, or an author's style are recognition tasks.

Strategic Networks

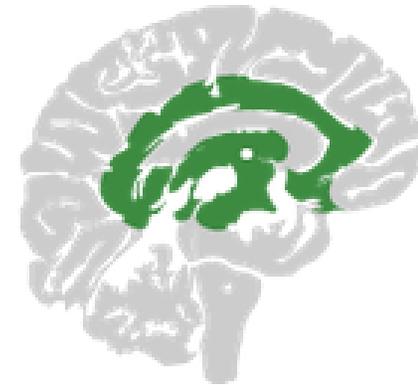
The "how" of learning



Planning and performing tasks. How we organize and express our ideas. Writing an essay or solving a math problem are strategic tasks.

Affective Networks

The "why" of learning



How learners get engaged and stay motivated. How they are challenged, excited, or interested. These are affective dimensions.

What is Universal Design for Learning (UDL)?

- UDL is a framework for instruction organized around three principles based on learning sciences (Rose and Gravel, 2010)
- UDL provides a blueprint for creating instructional goals, methods, materials, and assessments that work for everyone--not a single, one-size-fits-all solution but rather flexible approaches that can be customized and adjusted for individual needs

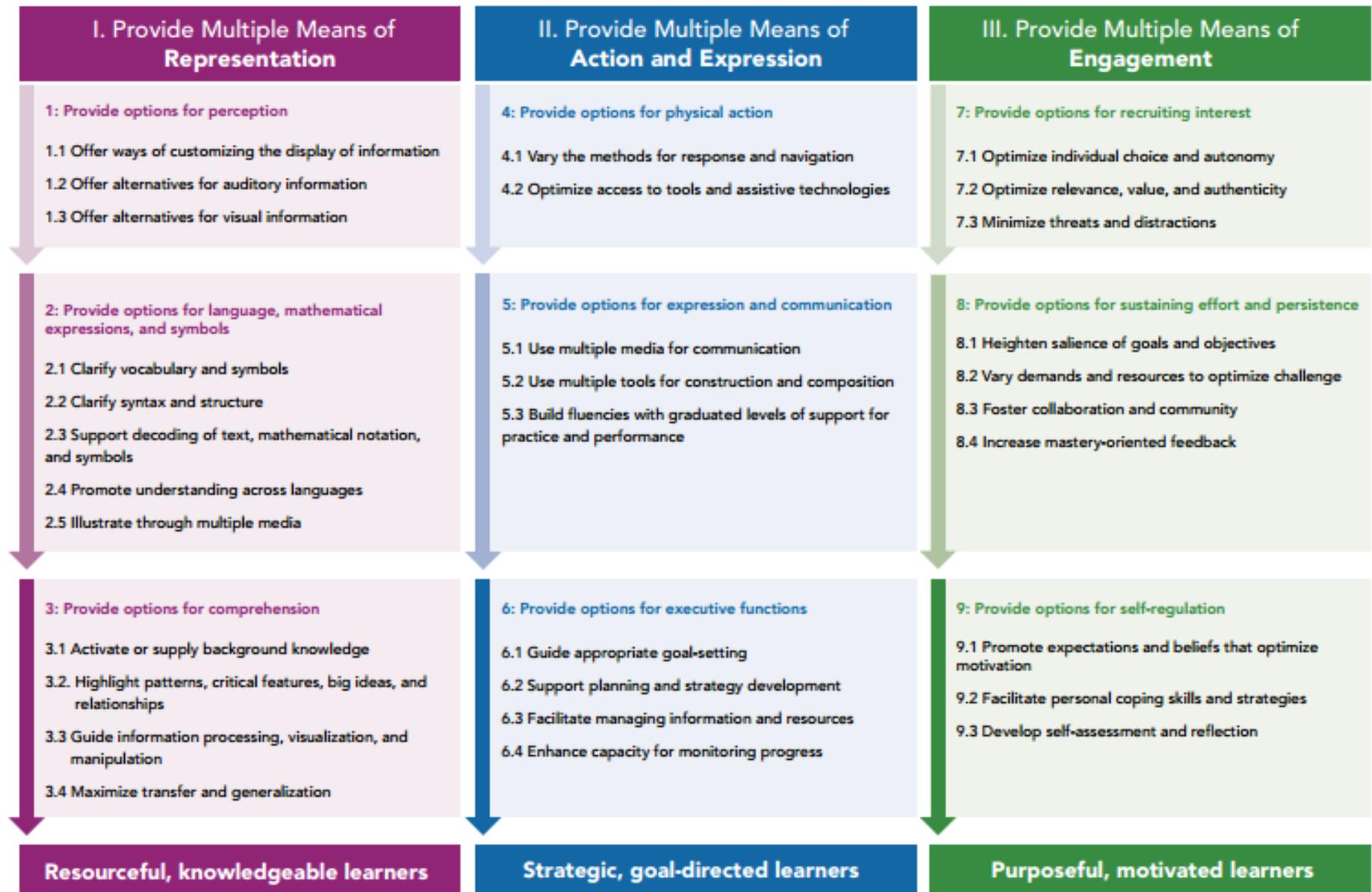
UDL is mentioned in the Higher Education Opportunity Act (HEOA; Public Law 110-315, 2008)

UDL Guidelines

UDL Guidelines are organized according to the *three main principles of UDL*

- The principles are broken down into nine Guidelines
 - Each Guideline has supporting Checkpoints
 - Each Checkpoint has examples and resources

Universal Design for Learning Guidelines



Resources

- CAST. Affective Networks audio
<http://udlonline.cast.org/page/module1/l148/> retrieved 7.12.14
- CAST. Recognition Networks audio
<http://udlonline.cast.org/page/module1/l144/;jsessionid=725BAD7A60189A4300983EC941DD11CC> retrieved 7.12.14
- CAST. Strategic Networks audio
<http://udlonline.cast.org/page/module1/l152/> retrieved 7.12.14
- CAST. UDL Guidelines.
<http://www.udlcenter.org/aboutudl/udlguidelines> retrieved 7.12.14
- CAST. UDL Online Modules.
<http://udlonline.cast.org/page/module1/l3/> retrieved 7.12.14