Possible Variability

Low vision

Poor visual/spatial

Hearing impairment

understanding

Color blindness

Limited English

Word recognition Limited content Not all possible variability listed proficiency Word decoding knowledge Deafness **Options for perception (to see hear and perceive information)** 1.3 Offer alternatives for visual information 1.1 Offer ways of customizing the display of information 1.2 Offer alternatives for auditory information Present information Large print Power Point Text-to-speech Visual guide at slower rate Wireless microphones Lavout of visual information Use of headphones Demonstration Document Camera Prezi/Glogster Teacher/peer read aloud Colored transparency Web cam Lecture/Small group overlays **Smart Board** Provide manipulatives Options for language, mathematical expressions, and symbols (decode language, math and symbols) 2.1 Clarify vocabulary and symbols 2.4 Promote understanding across languages 2.2 Clarify syntax and structure 2.5 Illustrate through multiple media 2.3 Support decoding of text, mathematical notation and symbols Repeat information Art Video Analogies Pre-teach vocabulary Manipulatives Models Clues Dual language representation Use diagrams/graphs Flash cards with Emphasize key (when applicable) pictures/definitions Aided questions words Mnemonics Options for comprehension (make sense and understand knowledge) 3.1 Activate or supply background knowledge 3.3 Guide information processing, visualization, and manipulation 3.2 Highlight patterns, critical features, big 3.4 Maximize transfer and generalization ideas, and relationships Highlight key words Graphic organizers Reduce irrelevant Field trips (real and Visual imagery Offer relevant features virtual) Explicit prompts to Chunking information Mnemonic strategies examples teach sequential into smaller elements Sticky notes, Project Based information templates, checklists Learning Action/Expression: The "How" of Learning (output) Fine motor difficulties Written expression Poor self-monitoring Poor memory for **Possible Variability** problems: written information Gross motor Restless/fidgety Selecting/narrowing difficulties Difficulty seeking Difficulty taking good topics Hand-eye coordination relevant information Planning problems Poor memory for Trouble finding key Organization Poor handwriting spoken information concepts Proofreading Trouble prioritizing Speech impairment Poor spelling Addressing audience Difficulty with oral Not all possible variability listed presentations Options for physical action (do, move and interact) 4.1 Vary the methods for response and navigation 4.2 Optimize access to tools and assistive technologies Slanted surfaces to Demonstrations Oral report Portfolio Examples position books Labs Partner read Keyboard commands Correct size of desk and Alternatives for physically Dance/role for mouse action chair interacting with material playing Pen pals (paper Options for classroom (by hand, voice, single Interviews pencil/online) placement and positioning switch or joystick, Dictated text keyboard)

Representation: The "What" of Learning (input)

Difficulty processing

and deriving meaning

from spoken

Difficulty with:

language

Blindness

Text structures/story

Difficulty or confusion

grammar

Fluency

Author style

with hypertext

Limited vocabulary

Tendency to literal

Difficulty finding

important information

interpretation

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Options for expression and communication (differentiate expression of knowledge)

- 5.1 Use multiple media for communication
- 5.2 Use multiple tools for construction and composition
- 5.3 Build fluencies with graduated levels of support for practice and performance

- Allow wait time
- **Templates**
- Use of physical manipulatives
- Sentence starters, sentence strips
- Music, visual art, sculpture
- Procedural checklists
- Calculators, geometric sketch pads
- Story webs, outlining tools
- Differentiated models. mentors, feedback
- Compose in multiple media: text, speech, drawing, illustration, design
- Use of storyboards/comic strips



- Netbooks
- Exit Slips
- Create videos
- Create games
- Group projects
- Word banks

Options for executive function (plan, strategize and initiate action)

- 6.1 Guide appropriate goal-setting
- 6.2 Support planning and strategy development

- 6.3 Facilitate managing information and resources
- 6.4 Enhance capacity for monitoring progress



- Data collection templates
- Graphic organizers/checklists
- Mentoring
- Embedded prompts to stop and think before acting
- Offer cognitive shift opportunities
- Before and after photos, graphs and charts showing progress
- **Timelines**

- Portfolios
- Explicit teaching of goal-setting process
- Frequent feedback
 - Student strategy sheets

Engagement: The "Why" of Learning (connection)

Possible Variability

- Discouraged
- Over-confident
- Low expectation of success
- Difficulty working in groups
- Difficulty working in pairs
- Fearful
- Withdrawn
- Domineering
- Problems outside of school
- Gives up easily
- Difficulty with independent work
- Tendency to clown around/disrupt
- "Turned off" to studying

Not all possible variability listed

Options for recruiting interest (care, value and find relevance)

- 7.1 Optimize individual choice and autonomy
- 7.2 Optimize relevance, value, and authenticity

7.3 Minimize threats and distractions



- Give students choices relative to all aspects of lesson
- Use activities/ information that is socially relevant and current
- Realia

- Use charts, schedules, cues, etc. that help predict activities and transitions
- Provide tasks that allow for active participation, exploration and experimentation
- Vary options for public display of
 - presentations, evaluations, etc.
- Offer options to introduce surprises/unpredictable activities
- Interest inventory
- Vary level of sensory stimulation (use workstations. headphones)
- Vary work pace, breaks, etc.
- Discrepant events

Options to sustaining effort and persistence (vary challenge and/or support)

- 8.1 Heighten salience of goals and objectives
- 8.2 Vary demands and resources to optimize challenge
- - Peer tutoring and
 - Movement breaks
- Display concrete or symbolic versions of goal
- Divide long term goal to show objectives
- Vary degree of difficulty
- 8.3 Foster collaboration and community
- 8.4 Increase mastery-oriented feedback



- Options for working in teams
- support

- Vary degree of freedom for acceptable performance
 - Student generated charts, rewards, reading, and rules.
- Project Based Learning
- Use of rubrics
- **Experiments**
- Authentic problem solving

Options for self-regulation (set goals, reflection and self-regulation)

- 9.1 Promote expectations and beliefs that optimize motivation
- 9.2 Facilitate personal coping skills and strategies

- 9.3 Develop self-assessment and reflection

- Learner diaries
 - Goal-setting
- Timer/rewards, positive feedback for staying on task
- Models, scaffolds, feedback for emotional support and coping skills
- Self-regulatory goals