
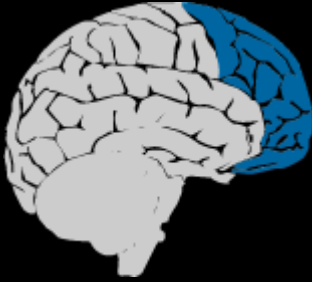



## UNIVERSAL DESIGN FOR LEARNING ACROSS NEURAL NETWORKS

| <b>Recognition Networks</b><br>The WHAT of learning                               | <b>Strategic Networks</b><br>The HOW of learning                                  | <b>Affective Networks</b><br>The WHY of learning                                    |
|---|---|---|
|  |  |  |
| Representation  | Action and Expression   | Engagement  |
| Provide options for perception  | Provide options for physical action   | Provide options for recruiting interest   |
| Provide options for language, mathematical expressions, and symbols               | Provide options for expression and communication                                  | Provide options for sustaining effort and persistence                               |
| Provide options for comprehension   | Provide options for executive function  | Provide options for self-regulation   |



### TO DEVELOP EXPERT LEARNERS

| Resourceful / Knowledgeable  | Strategic / Goal-Directed   | Purposeful / Motivated  |
|--|---|---|
| <ul style="list-style-type: none"> <li>Bring considerable prior knowledge to new learning</li> <li>Activate prior knowledge to identify, organize, prioritize, and assimilate new information</li> <li>Recognize the tools and resources that would help them find, structure, and remember new information</li> <li>Know how to transform new information into meaningful and useful knowledge</li> </ul> | <ul style="list-style-type: none"> <li>Formulate plans for learning</li> <li>Devise effective strategies and tactics to optimize learning</li> <li>Monitor their progress</li> <li>Recognize their own strengths and weaknesses as learners</li> <li>Abandon plans and strategies that are ineffective</li> </ul> | <ul style="list-style-type: none"> <li>Are eager for new learning and are motivated by the mastery of learning itself</li> <li>Are goal-directed in their learning</li> <li>Know how to set challenging learning goals for themselves</li> <li>Know how to sustain the effort and resilience that reaching those goals will require</li> <li>Monitor and regulate emotional reactions that would be impediments or distractions to their successful learning</li> </ul> |

