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| **Hierarchical Assessment****Discussion*****Thriving*** *– well-educated brains have a rich integrated network* *Assessments and instruction should support the development of knowledge networks****Developmental order-****Most..get robust intuition about development.  Most... have basic understanding of development. Most...have a shared intuition.** ***Activity*** *-* ***Persuasion Speech Understanding***
	+ *sort statements of knowledge cards in order of least development to highest development*
	+ *compare groups*
		- *notice majority have shared similar order of development*

*Growing a robust knowledge network**What is robust knowledge?****Breadth******Depth******Quality****How do we build robust knowledge?**Breadth - access to high quality factual and procedural knowledge**Depth – frequent opportunities to apply new information**Quality - regular feedback and reflective analysis of info.**Babies are addicted in dopamine/opioid cycle****Fundamental learning cycle-****Dopamine causes one to strive**Opioid makes one feel pleasure just often enough in order to keep cycle going**Challenging just enough to retain momentum**Goldilocks zone (ZPD)****Virtuous Cycles of Learning****Often heard complaint - “Students don’t remember what they learned last year”**Students retain knowledge when they can integrate it into their existing neural networks – when it’s “just right”.**¼ level -* *1.5-2.0 years beyond their current level of performance.**Developmental range in typical classroom is 5-7 years.  (5-7 years apart from grade level)**All students must learn same material- however, if not in “zone”, then unable to integrate new knowledge networks.**When students memorize and forget, knowledge networks become increasingly fragmented.**On average students grow .1-.15 of a level per year in grades 4-13****Four components to virtuous cycle of learning:**** *Set learning goals (standards and curricular*
	+ *Working with new information*
* *Applying it in practice*
	+ *Practicing reflective /analytic skills*
* *Awareness of cognitive biases*
* *Mindfulness and self/other monitoring*
	+ *Recalibrating learning goals*

* ***Activity:*** *R****eflective Judgment (RFJ)*** *- Heat Map*
	+ *determine level of development*
* ***Activity: Lesson Plan -***
	+ *create a lesson plan that uses these strategies*
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