

LISTEN- ORGANIZE -THINK -UNDERSTAND- SPEAK (LOTUS)

To be able to accomplish the LOTUS process, the brain has to function as one whole coordinated unit.

It is a multimodal integrated system where processes occur hierarchically; simultaneously; synchronously; and synergistically.

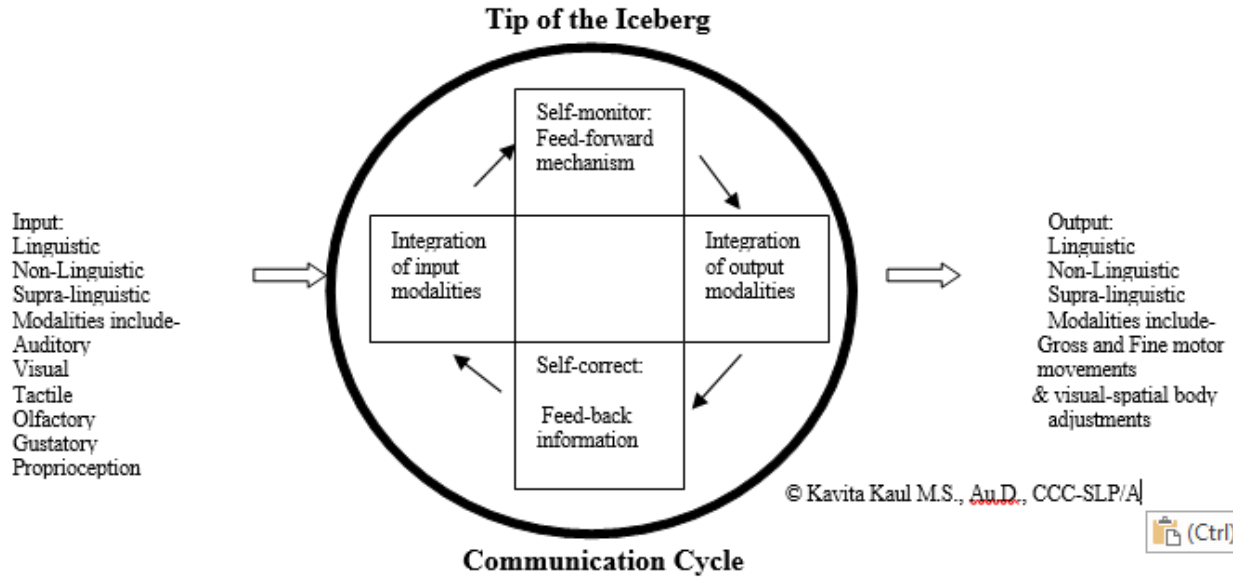
Hebbian Theory proposes that the nerves adapt during the learning process (Donald Hebb 1949).

Brain has the ability to reorganize itself by forming new neural connections. It allows neurons (nerve cells) in the brain to compensate for injury/disease/ developmental delays. It tries to adjust in the best way possible using the available resources at the time, to respond to the constant and often novel environmental demands

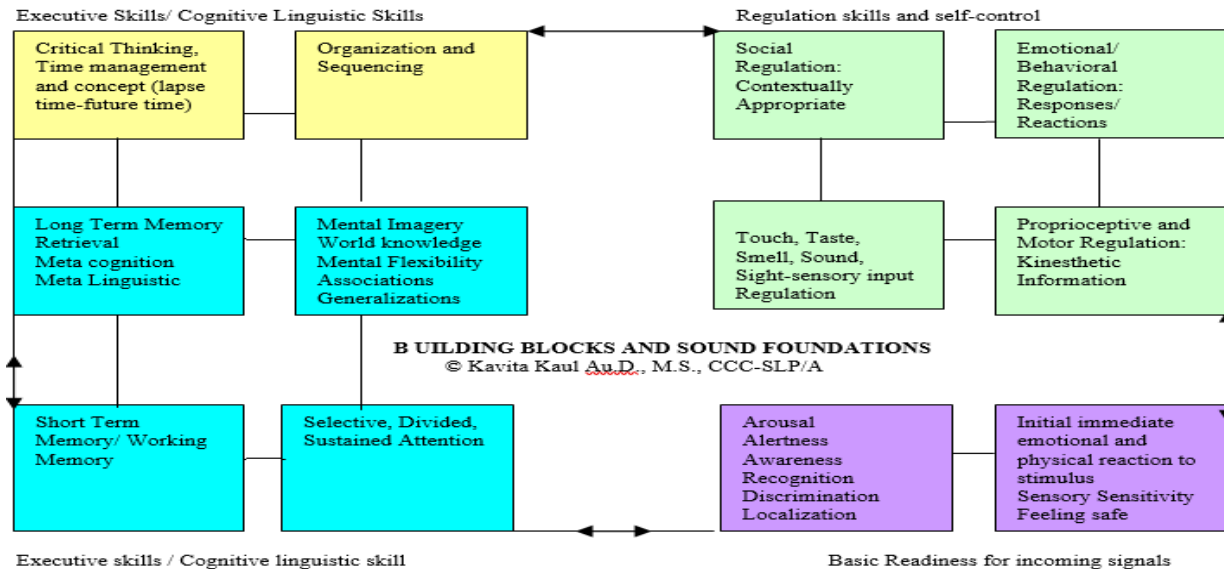
Neuroplasticity occurs both ways. Just as accurate pathways can be facilitated and promoted from appropriate intervention, erroneous pathways can also be formed from lack of intervention (waiting for the individual to grow out of it or hoping for the system to reset itself spontaneously)

Input-Output Processes

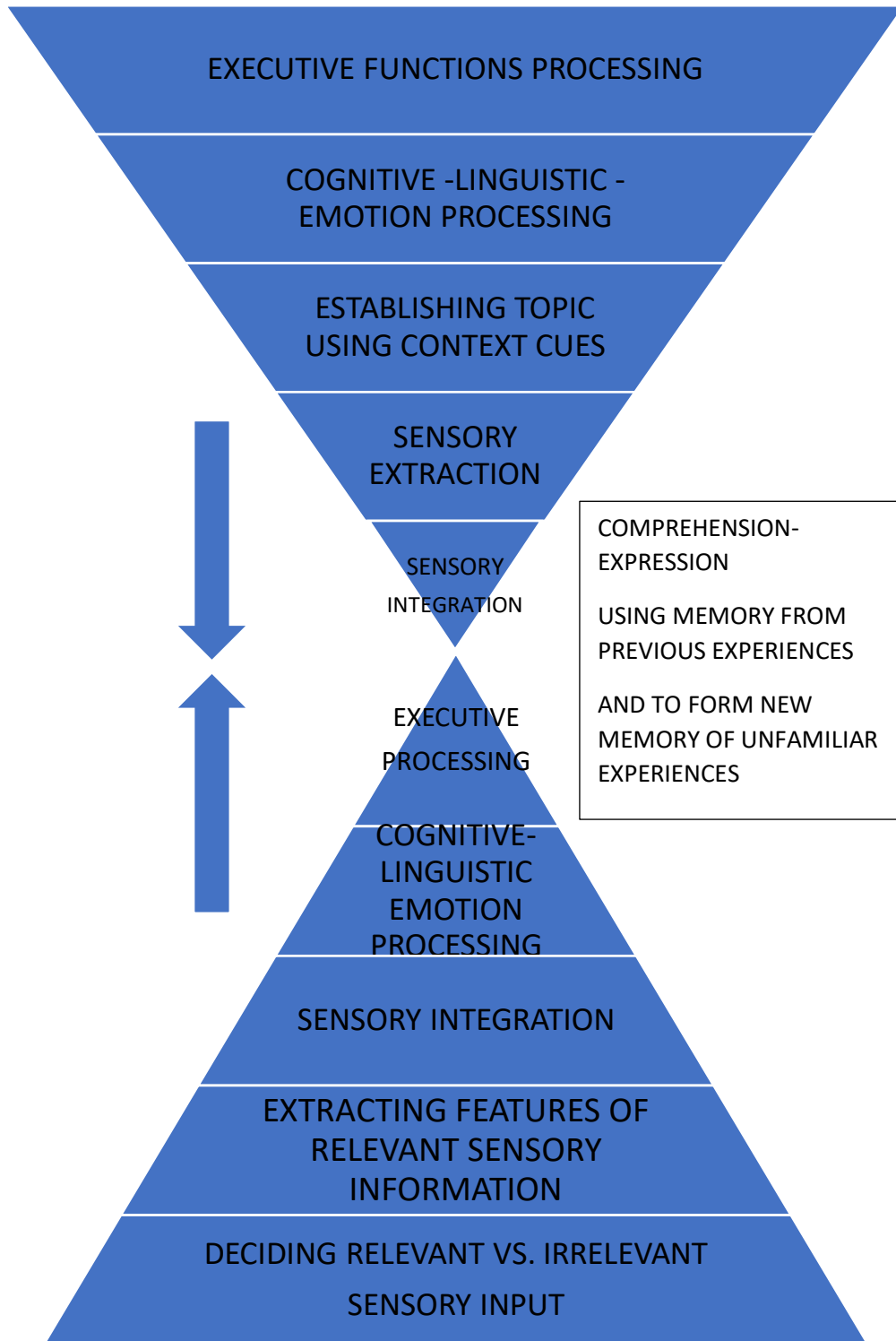
Perceived Output Processes



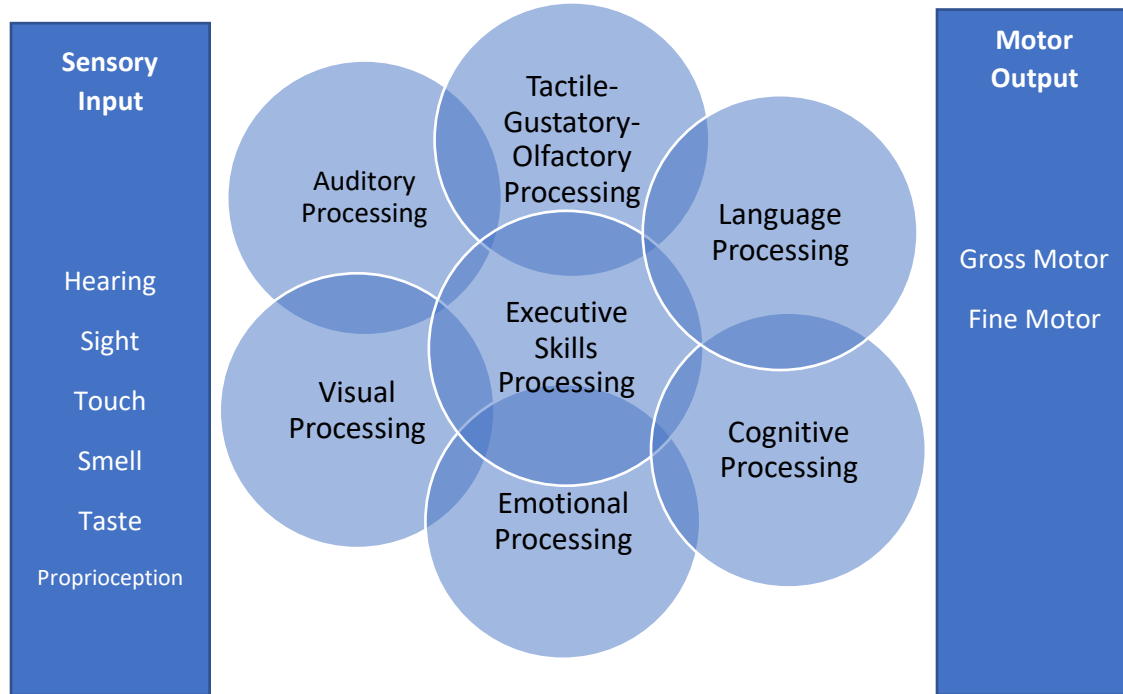
Hidden Input Processes **THE REST OF THE ICEBERG**



TOP-DOWN and BOTTOM-UP PROCESSING



Interconnected Hidden Systems



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