Student Success \ Brain, Emotion, and Health

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Limbic System, Emotions & Memory

ANATOMY

 Memory and emotions are anatomically linked to the limbic system: emotional or "reptilian" brain. This part of the brain includes the hippocampus and amygdala.

HIPPOCAMPUS

 This part is implicated in the transition of memory items from short-term to long-term memory. Damage to this part of the brain can impair people from learning new items.

AMYGDALA

 This part mediates the basic emotions with each memory. The amygdala works hand in hand with the hippocampus. As a result, every memory has an emotional signature to it.

THE EVOLUTION GAME

We evolved an inter-linked system
of memory and emotions in order to
survive in the evolution game. For
example, simply having a pictorial
memory of what a snake looks like is
not enough; we need to have feelings (i.e.
fear) associated with it as well in order
to survive (i.e. avoid it).

