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Introductions

- Melissa Knight, Director of Academic Coaching, Lynn University
- Amanda Evans, Senior Academic Coach, Lynn University
- Welcome to our session!



What are Cognitive Skills?

 Cognitive Skills: brain-based skills including perception, attention, memory, and processing

• Typically related to IQ and Academics



What are Non-Cognitive Skills?

- Non-cognitive skills are characteristics and traits that are not measured by academic tests, but are important to fostering academic success
- Non-cognitive skills include:
 - Motivation
 - Academic Self-Concept
 - Self-Efficacy
 - Resilience



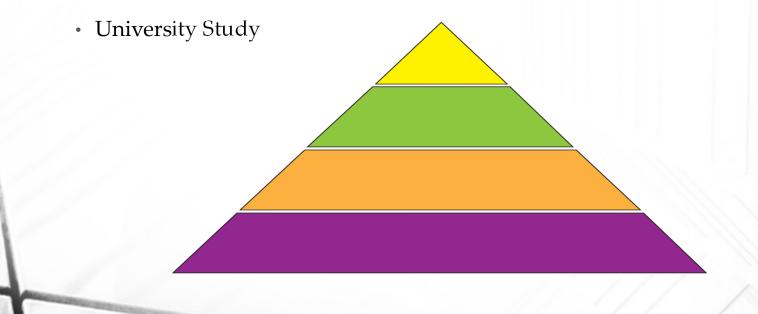
Research

- A lack of non-cognitive skills has been associated with less desirable educational and economic outcomes in adulthood
- Research has shown non-cognitive skills can help compensate for cognitive deficiencies related to academics (Rosen et al., 2010)
 - Motivation
 - Academic Self-Concept
 - Self-Efficacy
 - Resilience





• Self-efficacy can account for academic success beyond learning disabilities and delinquency (Evans, 2005)



Research summary

• It appears as though cognitive skills and non-cognitive skills can predict academic success, but that non-cognitive skills additionally predict employment and occupational status in adulthood (Rosen et al, 2010)

Ivy League Study



The Brain

Amygdala

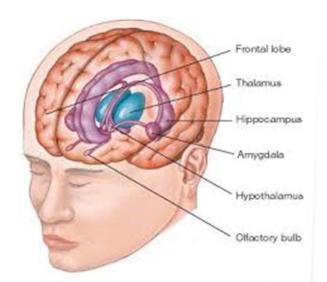
fight, flight, free

spontaneous joy

Hippocampus

Visual Spatial memory

Memory in context setting



Non-cognitive Skills

- How do we develop non-cognitive skills in the following areas?:
 - Motivation
 - Academic Self-Concept
 - Self-Efficacy
 - Resilience



Motivation

Motivational Interviewing

- How to facilitate change through conversation
- A method that is strength based to support students in finding their own way for change
 - Avoid being the "fixer"
- Skills needed
 - Active listener
 - Ask powerful questions
 - Patience



Self-efficacy

- Cognitive or non-cognitive skill?
- Fostering self-efficacy
 - Performance accomplishments
 - Vicarious experience
 - Verbal persuasion
 - Physiological states



"Developing specific EF and self-determination skills will lead to an increase in self-efficacious behavior." Goudreau & Knight, JAD

Academic Self-concept

- Academic self- concept is one's self perception regarding academic performance (ex: "I am good at math")
- Academic self-concept can significantly and positively affect academic achievement
- Research has shown that a strong academic self-concept is correlated with higher grades



Strategies for Improving Academic Self-concept

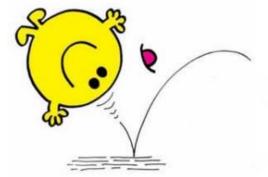
- Develop assignments and projects that encourage students to pursue their individual interests to reduce social comparison
- Provide students with performance feedback related to their improvement over time, rather than comparing class averages
- Express to students that each brings a unique set of valuable skills



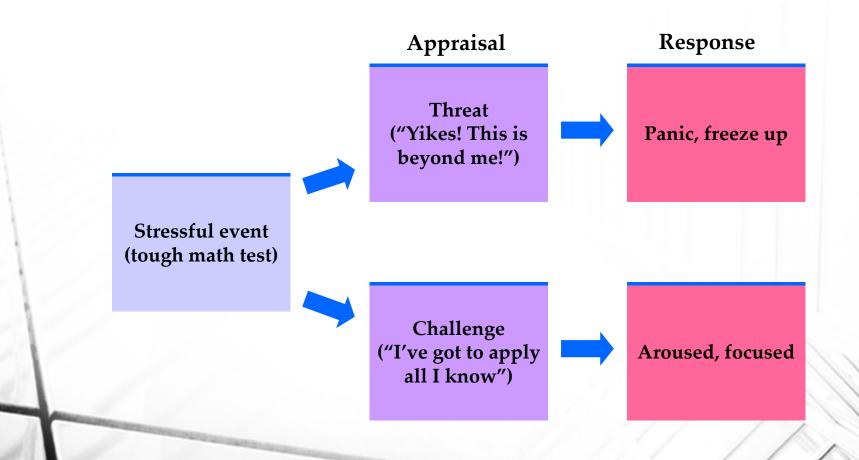


• The ability to "bounce back" from setbacks

• Ex: Failing an exam



Building Resilience: The Transactional Model



Group Activity

• Break into groups of 4

• Group 1: Motivation

• Group 2: Self-concept

• Group 3: Self-efficacy

• Group 4: Resilience

• Write down what you can do in your daily practice to foster academic success in the assigned area



Reference

- Gourdreau, S.B, & Knight, M. (2015). Executive Function Coaching: Assisting with Transitioning from Secondary to Postsecondary Education. *Journal of Attention Disorders* 1-9.
- Marsh, H.W. & Craven, R. *Academic Self-Concept*. Retrieved from: http://cachescan.bcub.ro/e-book/V/580593 3.pdf
- Rollnick, S., Kaplan, S., & Rutchman, R. (2016). Motivational Interviewing in Schools. New York: Guilford Press.

Rosen (book/print out)