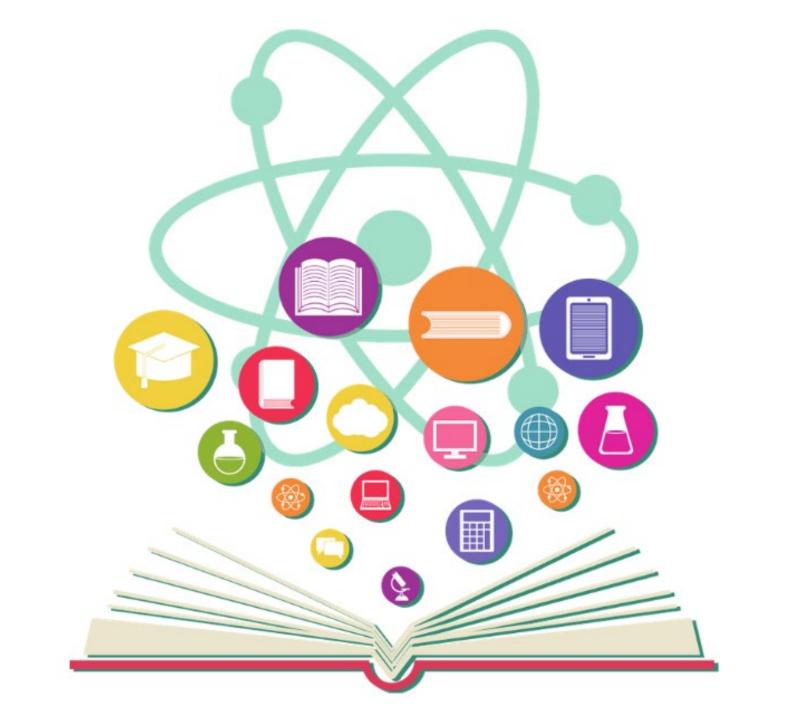


From Mundane to Magical

UNLEASHING
JOYFUL
LEARNING IN
YOUR
RESIDENCY
PROGRAM

JESSICA GOLDSTEIN MD





Joyful Learning

- Educational Approach:
 - Creates positive, engaging & enjoyable learning environment
 - Fosters intrinsic motivation and creativity
 - Facilitates deeper understanding
 - Designed to be inclusive and accessible to all learners

Relies on a rewarding and fulfilling learning process

Joyful Learning: Magical Education

- Learning Environment
- Collaborative Community
- Teaching Strategies





Joyful Learning:

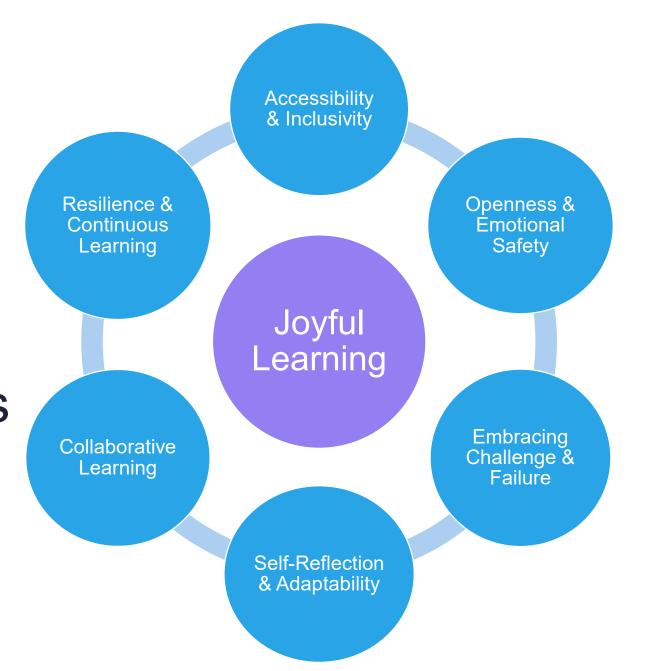
Making Medical Education Magical



Learning Objectives

- Define the three main "magical medical education" frameworks:
 - Universal design of learning (UDL),
 - Vulnerable Growth Mindset
 - Science of Learning
- Recognize how the three frameworks can be used to develop a joyful clinical learning environment, collaborative learning community & teaching strategies
- Develop practical strategies for implementing magical education principles into their own programs to foster joyful learning

Magical Medical Education Frameworks

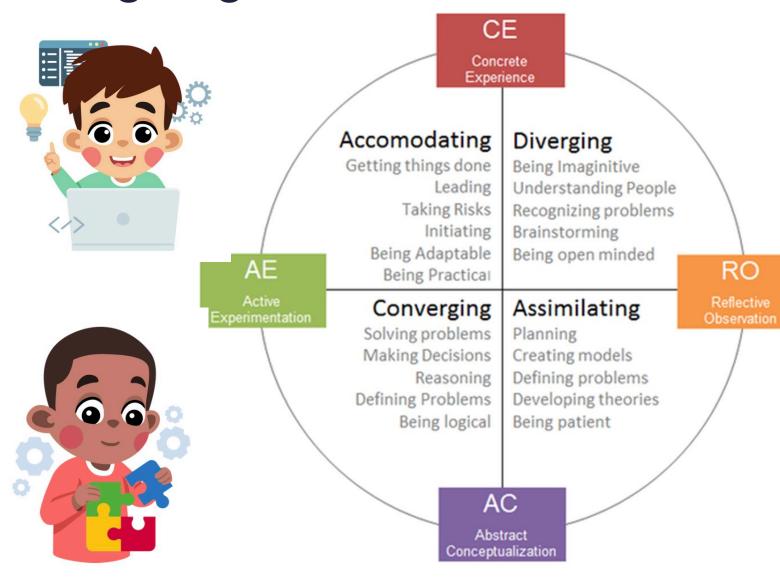








Designing for ALL learners









Universal Design of Learning



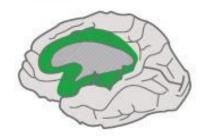


- Design curriculum that
 ALL learners can access
- Create flexibility and choice
- Remove barriers caused
 BY the curriculum

Universal Design for Learning

Affective networks:

THE WHY OF LEARNING



How learners get engaged and stay motivated. How they are challenged, excited, or interested. These are affective dimensions.



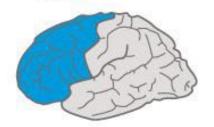
Recognition networks: THE WHAT OF LEARNING



How we gather facts and categorize what we see, hear, and read. Identifying letters, words, or an author's style are recognition tasks.



Strategic networks: THE HOW OF LEARNING



Planning and performing tasks. How we organize and express our ideas. Writing an essay or solving a math problem are strategic tasks.



Differentiate the ways that students can express what they know



Purposeful & Motivated

- Provide varied ways to interact with content, educator & other learners
- Allow Learner-Directed Choice
- Engage learners as curriculum co-designers **Key Elements:**
 - **Student Motivation**
 - **Community Building**
 - **Diverse Opportunities**
 - **Personal Relevance**
 - **Emotional Investment**













Provide options for

Provide options for **Recruiting Interest**

Provide options for

 Optimize individual choice and autonomy · Optimize relevance, value, and authenticity · Minimize threats and distractions

Sustaining Effort & Persistence

· Vary demands and resources to optimize challenge

· Heighten salience of goals and objectives

 Foster collaboration and community · Increase mastery-oriented feedback

Self Regulation

- · Promote expectations and beliefs that
- Facilitate personal coping skills and strategies
- · Develop self-assessment and reflection





Provide options for

Perception

- Offer ways of customizing the display of information
- Offer alternatives for auditory information
- · Offer alternatives for visual information

Provide options for

Language & Symbols

- Clarify vocabulary and symbols
- Clarify syntax and structure
- Support decoding of text, mathematical notation, and symbols
- Promote understanding across languages
- · Illustrate through multiple media

Provide options for

Comprehension

- Activate or supply background knowledge
- Highlight patterns, critical features, big ideas, and relationships
- Guide information processing and visualization
- Maximize transfer and generalization

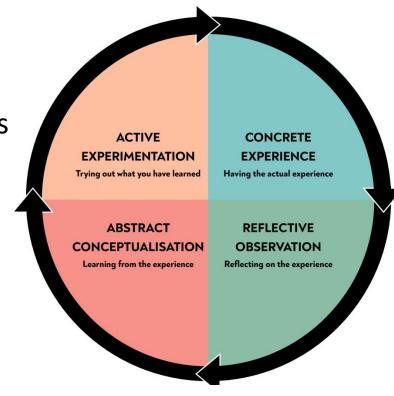
Representation = The "What"



Students choose preferred formats

• Consider:

- Text Learning
- Practical Demonstrations
- Visual/Audio Aids
- Real World Context
- Peer Teaching







Provide options for

Physical Action

- Vary the methods for response and navigation
- Optimize access to tools and assistive technologies

Provide options for

Expression & Communication

- Use multiple media for communication
- Use multiple tools for construction and composition
- Build fluencies with graduated levels of support for practice and performance

Provide options for

Executive Functions

- · Guide appropriate goal-setting
- · Support planning and strategy development
- · Facilitate managing information and resources
- Enhance capacity for monitoring progress

Action & Expression = The "How"

- Allow students to demonstrate understanding in various ways including on formal and informal assessments
- Offer different ways to participate in educational sessions
- Strategically use technology in teaching and learning
- Use multiple types of media to communicate
- Communicate learning objectives & goals and provide the organizing clues
- Consider timing and impact on learners





The Magic of UDL for Medical Education



Unleashes the Joy of Learning



Vulnerability

Uncertainty, Risk & Emotional Exposure



Vulnerability in Medical Education



Medical School Residency Fellowship What a Learner Can Do

What Learner Cannot Yet Do

Zone of Proximal Development: The gap between what a learner can do independently and what they can do with support

ZPD

Rumble with Vulnerability



Having the courage to show up when you can't control the outcome.







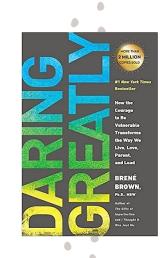
Live Your Values



Bravely Trust



Learn to Rise



Show up Unarmored



Live Your Values

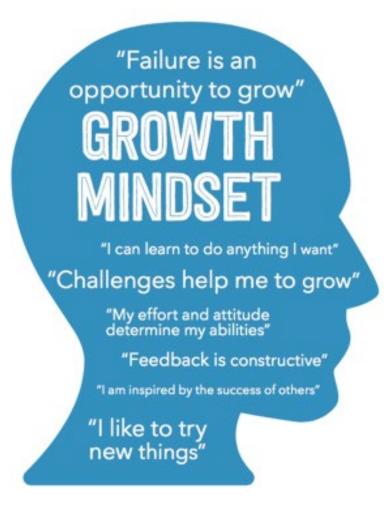


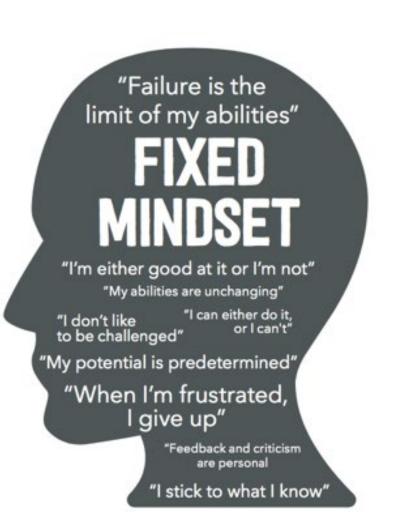
Bravely Trust

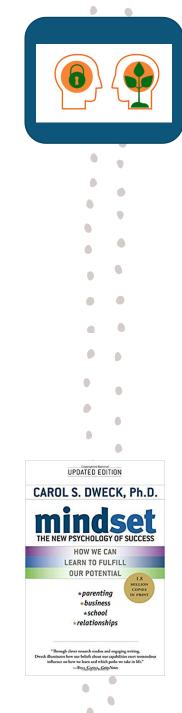




Mindset Theory: Learn to Rise







Growth Mindset

- Fostered and modeled by faculty
- Mindset is a Choice
- Needs to be part of the school culture



It is our * CHOICES that show what we * truly are far more than our - Albus Dumbledore



Rumble with Vulnerability

The Magic of Vulnerable Growth Mindset for Medical Education







Let's Bring the Magic to Medical Education





- Teach the magical frameworks
- ❖ Answer the "Why"
- Leave your armor at the door
- Engage your faculty in magical teaching
- Show up for your learners
- Create opportunities for connection



Creating Space to Rumble with Vulnerability

Building Community





Professional Development + (X=Y) + Coaching = Community











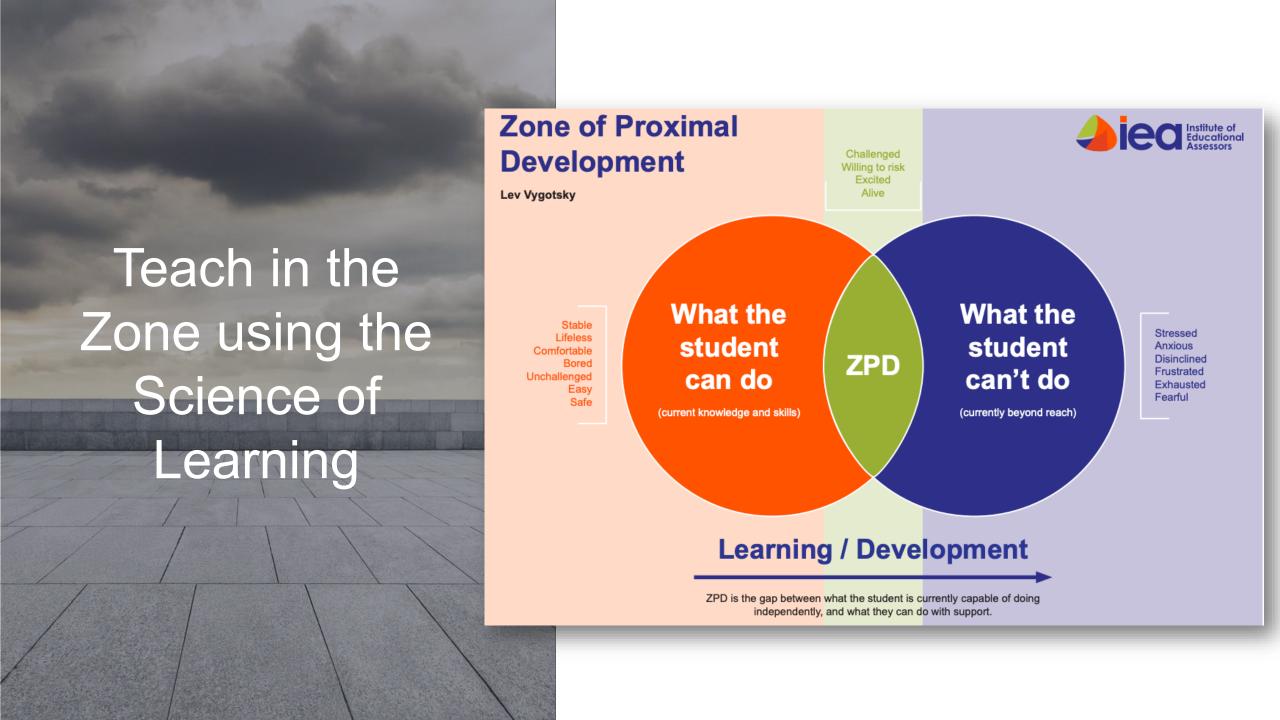
		Matthews Flight	Kennell Flight	Hack Flight	Horwitz Flight
l	Pilot	APD	PD	APD	APD
I	Co-Pilot	Chief A	Chief B	Chief C	Chief D
ı	Coach	Coach Group A	Coach Group B	Coach Group C	Coach Group D
I	Advisor	5-6 Advisors	5-6 Advisors	5-6 Advisors	5-6 Advisors
l	*	Seniors	Seniors	Seniors	Seniors
ı	*	Juniors	Juniors	Juniors	Juniors
	*	Interns	Interns	Interns	Interns

Junio

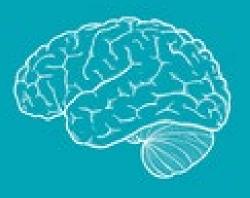
RACE FOR THE RAINBOW











I can't do this...*yet*. This doesn't work....yet. I don't know...yet. I don't get it...*yet*.





6 Tips to Improve Learning



Spaced Practice

Calling information to mind again several weeks after first learning improves retention.

Expand details around a concept. Why and how questions build understanding.

Elaboration

Concrete Examples

Solidify an abstract concept with varied examples.

Combine visual and verbal information. Be selective of what is included to make sure it adds value.

Dual Coding

Interleaving

Mixing together or alternating similar concepts can help compare/contrast.

Quizzes, questions, or talking about a topic brings it back to mind, solidifying the knowledge.

Retrieval Practice

Magical Medical Education Frameworks

The Science of Learning

Joyful Teaching

The Neuro-Games





- No Prep Journal Clubs
- Peer Teaching
- A Day in the Clinic
- Gamify

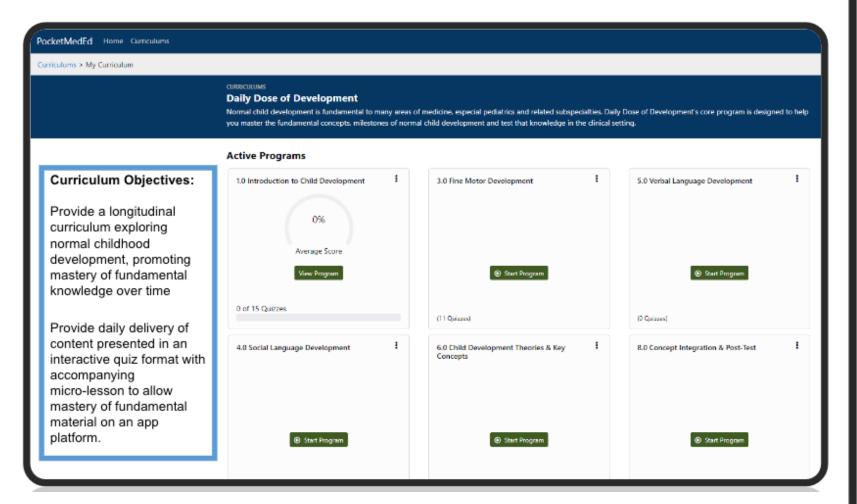
- ProfessionalDevelopment
- Kahoot!
- Jigsaw Method





Daily Dose of Development

Spaced Practice + Retrieval Practice + Interleaving = Sticky Learning





Daily Dose Quizzes

The children in this picture are both working hard on their art creations. Based on their grasps of their pencils, how old are the children in this picture?

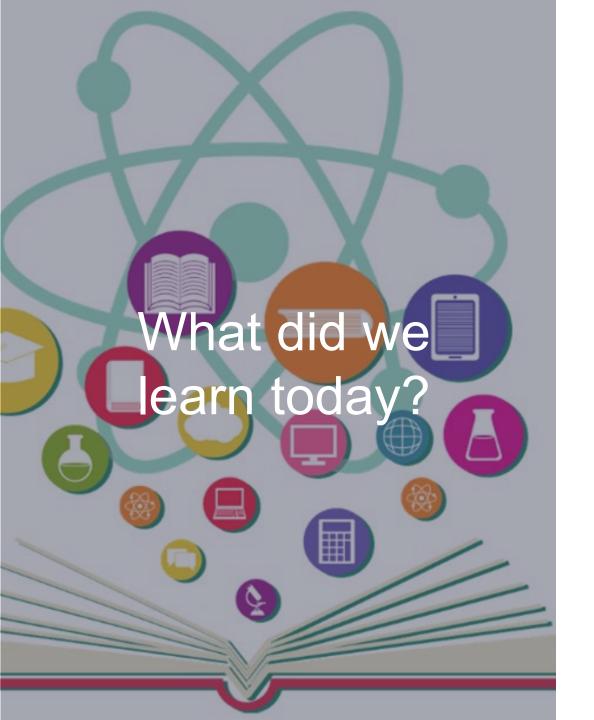


- a) 12 months, 3 years
- b) 18 months, 3 years
- c) 24 months, 4 years









We learned about:

- The 3 Magical Medical Education Frameworks
 Universal Design For Learning
 Vulnerable Growth Mindset
 Science of Learning
- How using the magical frameworks can build a joyful learning environment in magical and medical education
- Practical examples and strategies of how to bring the magic to your program

Bring the Magic to your Program

Magical Med Ed Toolkit

