

Thank you for joining us!

Session 2: Culture of Care Institute
Trainer: Gill McClean & Anne Contreras

Getting Started:

- 1. If you have any questions, please type them into the Q&A box.
- 2. Place a pen/pencil/paper nearby to jot down your thoughts.
- 3. At the end of this session, there will be a Session Quiz / Feedback Form.

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Cutture of Care Series

Today's Topics:

The Neuroscience of Stress & Neuroplasticity

Introductions

Gill McClean

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Director of Professional Development & National Trainer



Who We Are

Pure Edge, Inc. (PEI) is a private operating foundation that provides direct service to organizations through professional development & strategy thought partnership.

PEI also provides grants to national organizations that advance the work of whole child development & SEL.

Introductions



Respond to the poll to tell us a little about yourself.





Learning Objectives

Session Learning Objectives

- Describe the neuroscience of stress.
- Analyze the affects of the stress response on the educational environment.
- Identify the Vagus nerve and describe its affect on the nervous system.
- Define neuroplasticity.

Series learning objectives

- Illustrate the interconnectedness of SEL and self-care.
- Practice and implement Breathe, Move, and Rest strategies for Self-Awareness and Self-Management.
- Identify CASEL competencies.
- ❖ Acquire skills to train colleagues in SEL, evidence-based curricula.





Welcoming Activity

Share your response with our group.

Describe Your Mood











Engaging Activity: Mindful Minute





Social and Emotional Competencies





Teamwork





Transformative SEL & Self Management

Potential Concerns

- Acculturative stress occurs when low-income and/or immigrant youth encounter a cultural mismatch between the expectations and norms of their host (e.g., U.S.) and their home (heritage)
- Racial/ethnic discrimination (different from acculturative stress) has a number of interpersonal and institutional manifestations and is a common experience for people of color.
- Reactionary and self-defeating responses to cultural and racialized stress and microaggressions often result in **punishment** of students of color

Potential Opportunities

- The cultural and ethnic-racial identity (ERI)
 aspects of self-awareness could provide youth
 with more adaptive coping strategies
- Instead of becoming emotion-focused and disengaged, students could become more focused on identifying situational or societal challenges and pursuing individual and collective solutions

SELF-

SOCIAL

AWARENESS

SFIF-

RESPONSIBLE

DECISION-

MAKING

AWARENESS MANAGEMENT

RELATIONSHIP



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We Always Practice

- > Self-Care
- Brain Breaks
- Modeling SEL Lesson Structure



Breathe

















Guiding Questions

What does the expression "flip your lid" mean?

What is neuroplasticity?

Grades 6-12, Lesson 4.7

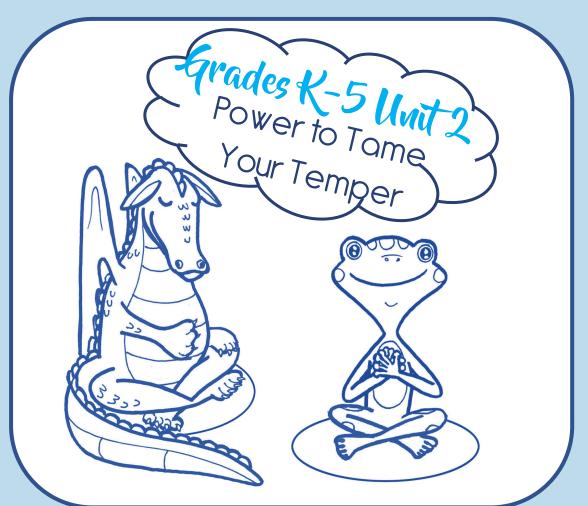
What does it mean to "grow" your brain?

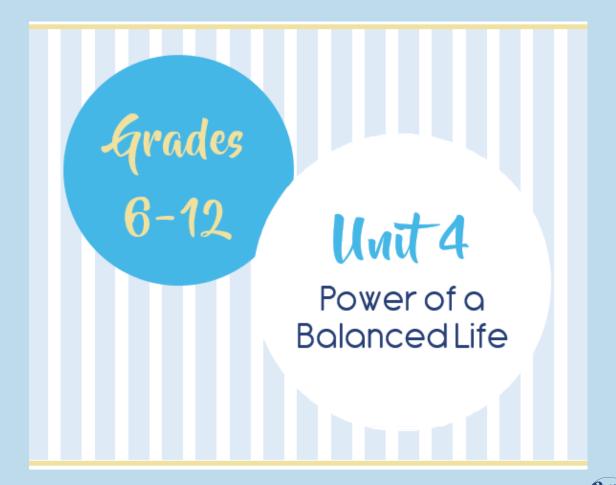
Grades 3-5, Lesson 2.1





Pure Power









Review of Part 1

Modeling and Implementation of SEL











Welcoming / **Inclusion Activities**

Engaging Strategies

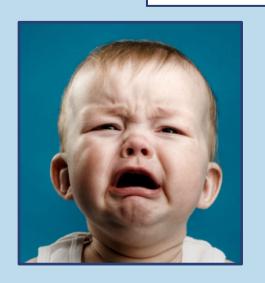
Optimistic Closure







Stress Response



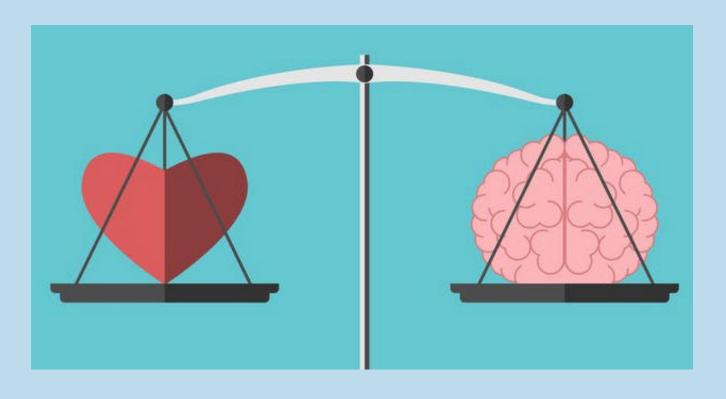
"Gas Pedal"
Sympathetic Nervous System:
Fight or Flight



"Brake"
Parasympathetic Nervous System:
Rest and Digest



Emotional Regulation



Balanced emotional regulation entails¹:

- Feelings
- Thoughts
- Physiological signals:
 - Heart rate
 - Breath pattern
- Nonverbal communication:
 - Body language
 - Facial expression

Respond

Vs.





Benefits of Nasal Breathing



- Filters dust and impurities from the air
- Warms the air to body temperature
- The diaphragm is more easily controlled, which supports the development of internal core strength
- More control over lengthening the breath (extended exhalations help activate the parasympathetic nervous system)
- Increased oxygen from nasal breath increases energy and vitality

到限

Engaging Activity: Alternate Nostril Breathing





- ❖ The hand movements will take some practice to feel comfortable.
- If thumb and pinky are too hard for learners to coordinate, you could use right thumb to close right nostril and left thumb to close left nostril.
- Once your learners have mastered the hand movements, helpful verbal cues are: inhale right, close, exhale left. Inhale left, close, exhale right.
- This exercise can take 1 to 3 minutes.

- 1. Let's start with a few deep breaths through the nose.
- 2. Inhale, close the right nostril by pressing the side of the nose with the right thumb.
- 3. Exhale out the left nostril.
- 4. Inhale through the left nostril.
- 5. Close the left nostril by pressing the side of the nose with your right pinky and fourth finger. At the same time, take your thumb off of your right nostril.
- 6. Exhale out the right nostril.
- 7. Inhale through the right nostril.
- 8. Close the right nostril with your thumb again and exhale through the left (removing the pinky and fourth finger).
- 9. This is one round. Complete 2 or 3 rounds by repeating steps 2-8. End on a left exhalation.
- 10. Take a few regular breaths.
- 11. Notice how you feel.



Engaging Activity: Seated Forward Bend

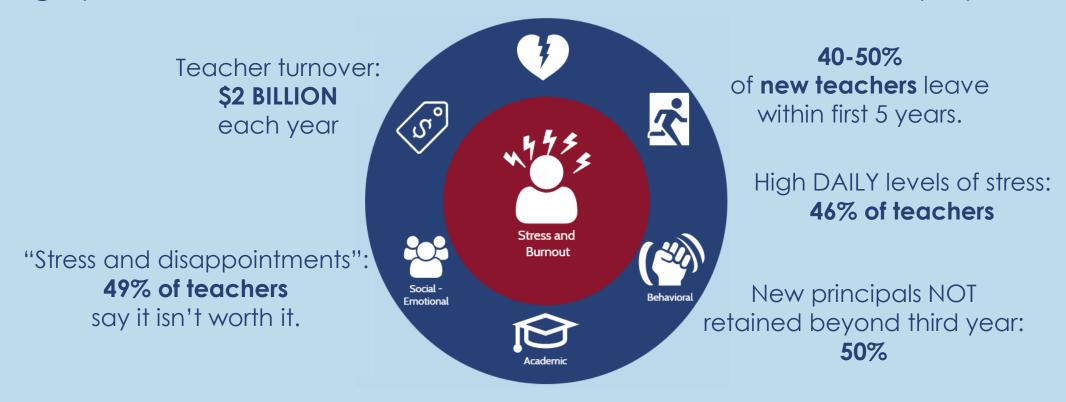
- 1. Sit in Seated Mountain Pose with feet flat on the floor. Inhale and sit tall, making your back as long as possible.
- 2. Exhale, reach both feet slightly out in front of you and fold over your legs, sliding your hands down your legs towards your shins. Take 2-3 breaths here.
- 3. Inhale and come back up to Seated Mountain Pose.
- 4. Repeat as required.

*Use this move as a quick pick-me-up or to restore when energy seems to be low.



Why Focus on School Stress?

In highly stressed school environments, teachers and learners pay the costs.



When teachers are highly stressed, students show lower levels of both social adjustment and academic performance.



TIRED STRESSED BORED

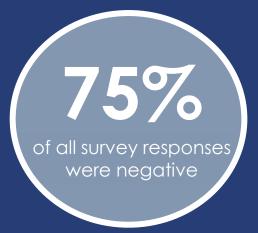
In 2015 the Yale Center of Emotional Intelligence & Born This Way Foundation surveyed 22,000 high school students.

Students were asked, "How do you currently feel in school?" The most common responses included:

- Tired (39%)
- Stressed (29%)
- Bored (26%)

Among positive responses were:

- Happy (22%)
- Excited (4.7%)



Student Mental Health



60% of K-12 students are exposed to a traumatic event.



17 million children have untreated mental health diagnoses.



2nd

most common cause of death among ages 10-24 is suicide.



95% of teens have smartphones, while 45% are "online constantly."



hours is the average amount of media consumed each day, unrelated to school, by teens (13-18). The average for ages 8-12 is 6.

52%

is the rate of increase in major depression among youth ages 12-17, from 2005-2017.

6.1 million

children ages 2-17 have received an ADHD diagnosis.

30-40%

of undergrads at Ivy League institutions seek mental health services, up 20% per year over the last 6 years.





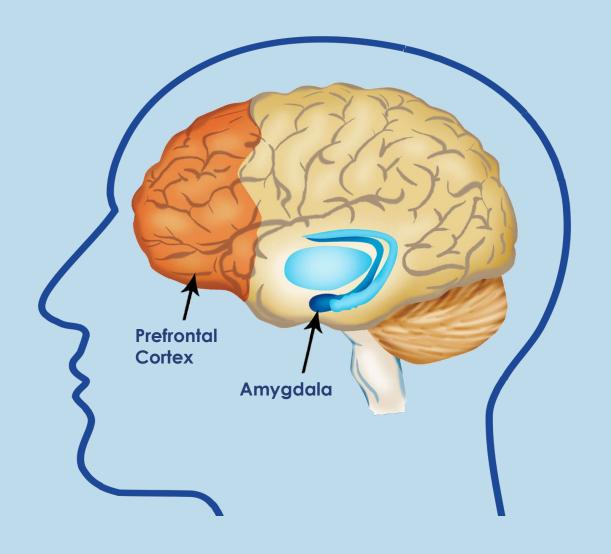
Engaging Activity: Even In - Even Out

- Start in Seated Mountain with a tall spine, relaxed shoulders, and eyes gently closed.
- 2. Breathe naturally through the nose.
- 3. We are going to focus on making our inhales and exhales even.
- 4. Inhale deeply through the nose and exhale through the mouth for a count of one.
- 5. On the next breath, lets count to two on the inhale and the exhale.
- 6. Repeat, continuing to extend the breath up to a count of five.





Self-Regulation & the Brain

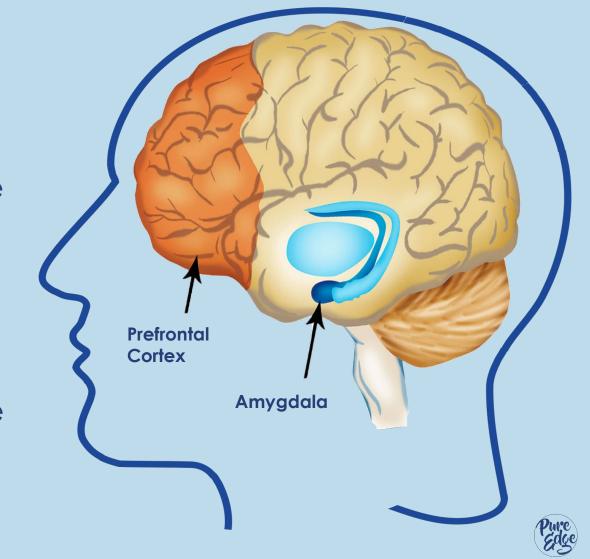






Neuroscience of Stress

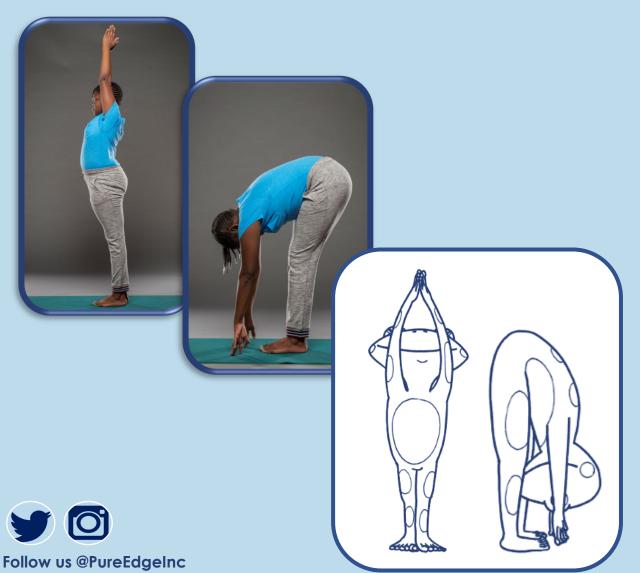
- The rational part of the brain, the Prefrontal Cortex, isn't fully developed until age 25 or so.
- Adults think with the prefrontal cortex, the brain's rational part. This is the part of the brain that responds to situations with good judgment and an awareness of long-term consequences.
- Children, teens, and young adults rely on the amygdala to process information; the emotional part of the brain.







Engaging Activity: Sunrise/Sunset

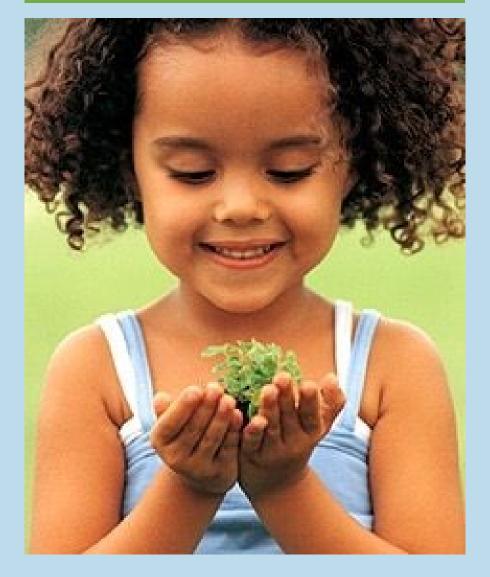


- 1. Start in Mountain Pose. Take a few breaths here.
- 2. Inhale, reach your arms up overhead (this is Sunrise Pose).
- 3. As you exhale, fold forward. Put your hands on your shins, or your ankles, or maybe the floor (this is Sunset Pose).
- 4. Inhale all the way back up to Sunrise.
- Exhale hands down for Mountain.
- 6. Repeat a few times. Notice how you feel.



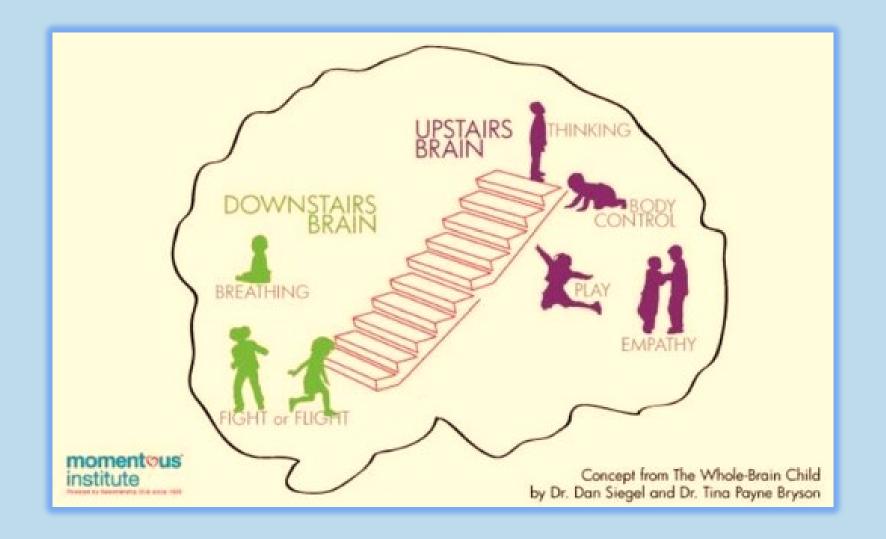


Green Zone





Upstairs Brain - Downstairs Brain

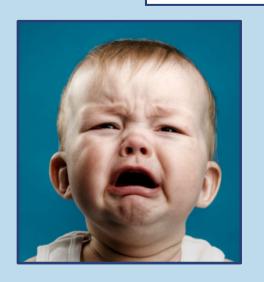


Upstairs Brain - Downstairs Brain

Integrating upstairs downstairs strategies:

- CONNECT, THEN REDIRECT: Be present with your child's feelings, help them get into the "green zone."
- 2. **Breathing** will help bring the prefrontal cortex ("upstairs brain") back online.
- 3. Move it or lose it: Get child moving and their mood will change.

Stress Response



"Gas Pedal"
Sympathetic Nervous System:
Fight or Flight

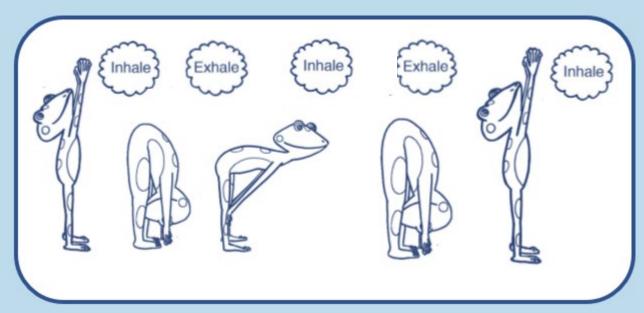


"Brake"
Parasympathetic Nervous System:
Rest and Digest





Engaging Activity: Recharge Sequence









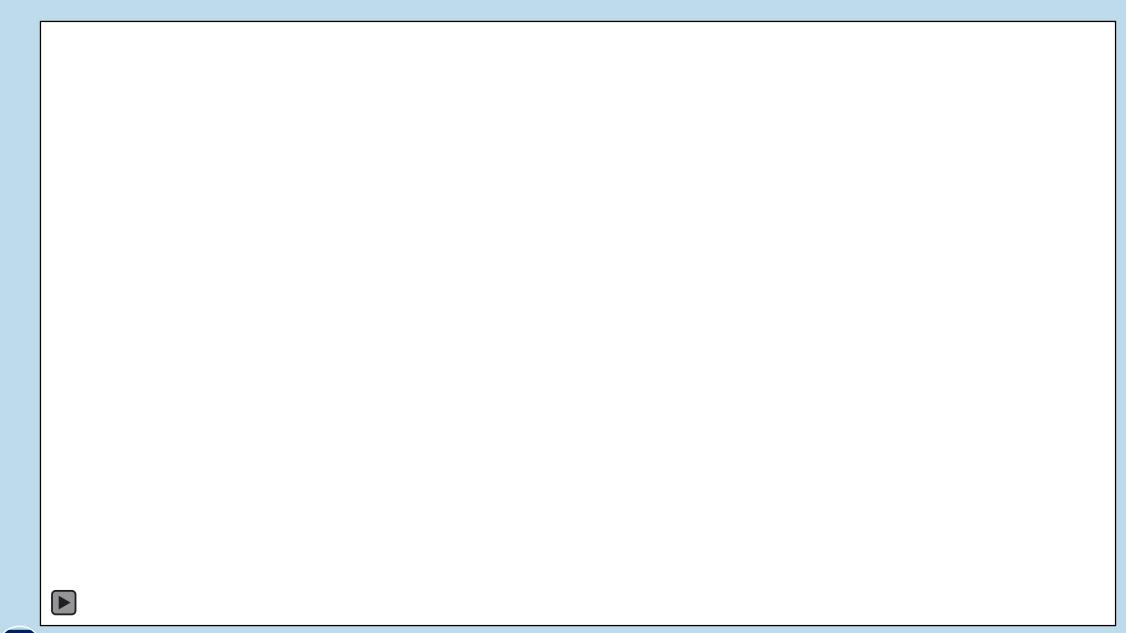




- 1. Begin standing in Mountain with feet slightly apart, hands at your sides.
- Inhale, take your arms overhead and look up.
- 3. Exhale and fold over your legs, bending the knees slightly to allow the hands to rest on the shins, the feet or the floor.
- 4. Inhale, place hands on shins, straighten legs and look up.
- 5. Exhale and fold over the legs once more.
- 6. Inhale, come all the way up to standing, arms overhead and look up.
- 7. Exhale, return to Mountain.

*This sequence can be done behind or in front of desks/chairs. It's useful to re-energize learners when they get tired.









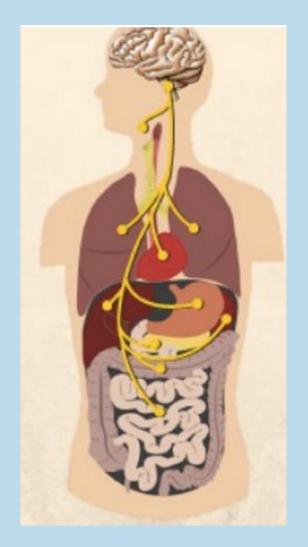
Neuroscience: Vagus Nerve

The vagus nerve, the tenth cranial nerve, is the superhighway of the nervous system that **connects** the body and brain.





Neuroscience: Self-Care & Vagal Tone



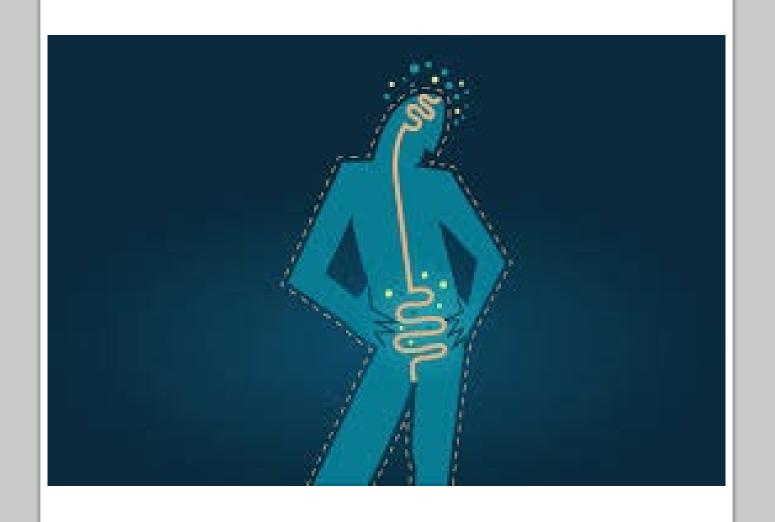
THE VAGUS NERVE

How to Hack Your Nervous System

We can tone the **vagus nerve** through deep breathing exercises.







Vagus Nerve

Latin for "wanderer," which is appropriate for the longest cranial nerve in the body.

It is intricately connected to:

- Mood
- Immune response
- Digestion and
- Heart Rate¹



Parasympathetic

Parasympathetic activation moves the body toward homeostasis.

- Our inhalations/exhalations become smooth & quiet.
- The nervous system becomes calm.



Engaging Activity: Seated Figure Four



- 1. Begin in Seated Mountain Pose.
- 2. Inhale, cross the right ankle over the left thigh, just above the knee. Place the right hand on the right thigh and left hand on the right foot.
- 3. Exhale, fold torso forward and relax the head down. Take 2-3 breaths here.
- 4. If it's easier, you can hold the legs of the chair as you fold forward.
- 5. Inhale, come back to Seated Mountain.
- 6. Switch legs and repeat on the other side.

*Use this sequence to release the back, which can get tired from sitting.





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If you are just joining us, we are on a 5 minute break.

Part 2 will start momentarily.





Introductions

Anne Contreras

MACP, MFTi #87444 Director of Programs - National Trainer

Doctoral Studies
Somatic Psychology (Embodied States)
Foundation: Trauma Studies



Engaging Activity: One Minute Reflection



- Before leaving school take a moment to pause and reflect on today.
- Sit comfortably, either at your desk or on the floor.
- Were there things you did today that you are proud of? Let them soak in for 20-30 seconds.
- Feel good about your accomplishments.
- Were there things you felt you could have done better or differently? It's ok to make mistakes or missteps.
- Tomorrow, with a fresh mind and even breathing, you can try again.

*If on the floor, sleeping crocodile can be done lying on the belly. Instruct learners to cross arms, "make a pillow with your hands" and lie down with head resting on hands.



Welcoming Activity: This or That



Respond to the questions in the poll.







WHAT IS NEUROPLASTICITY?

the brain's capacity to change and rewire according to environment and experience



NEUROPLASTICITY

Like a snowy hill in winter



"The brain is like a snowy hill in winter. When we go down the hill on a sled, we can be flexible because we have the option of taking different paths through the soft snow each time. But should we choose the same path the second time or the third time, tracks will start to develop, and these tracks become really speedy and efficient at guiding the sled down the hill. It doesn't take long to get literally stuck in a rut. Taking a different path becomes increasingly difficult, but, thanks to the brain's wondrous capacity for learning and rewiring itself, it's not impossible!"

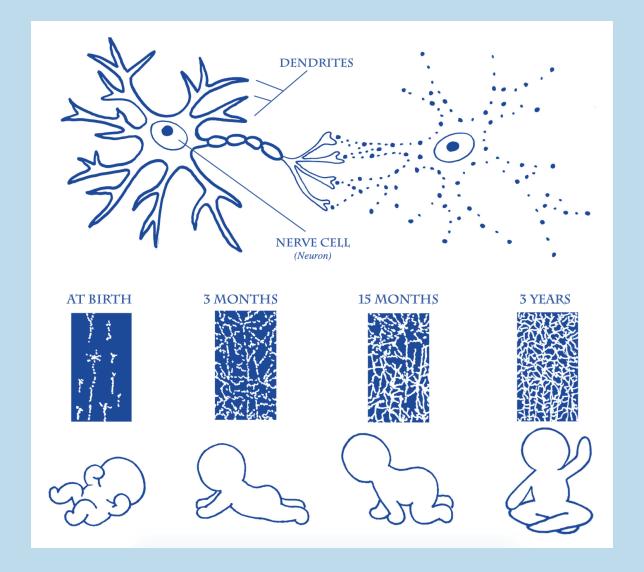




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Brain Development Factors







Engaging Activity: Chair Eagle



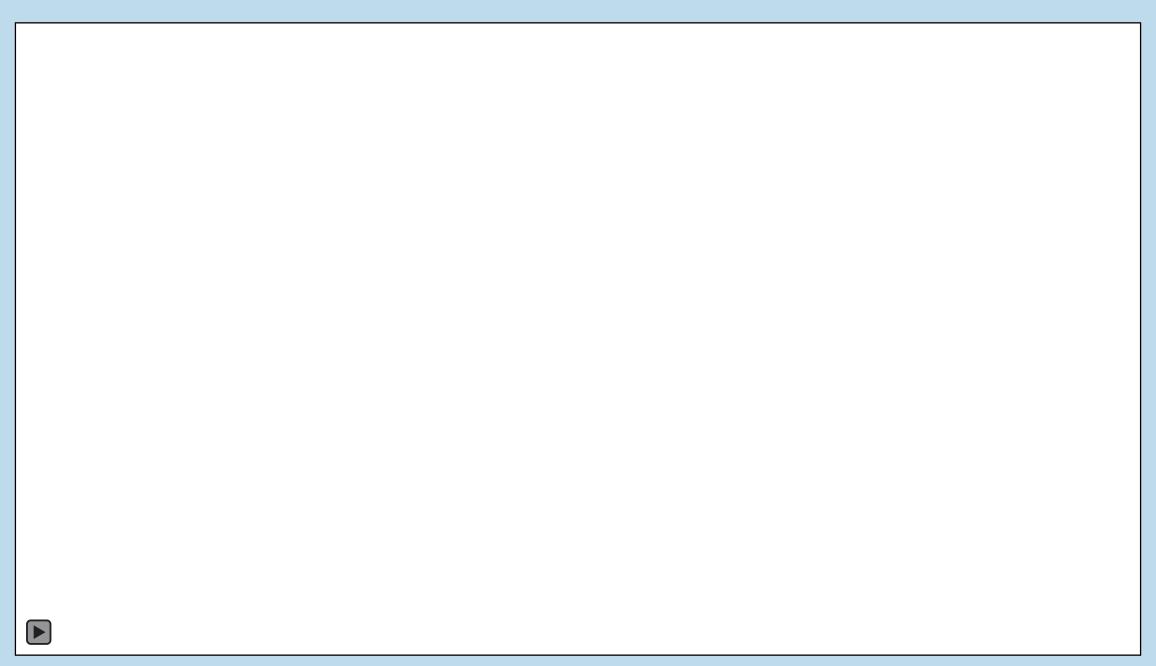


- 2. Cross your right thigh on top of your left.
- 3. Inhale and bring your arms up with elbows bent and palms facing forward (cactus arms).
- 4. Exhale and cross your left elbow on top of your right. Touch the back of your hands together. If it feels comfortable, bring palms together.
- 5. Inhale and lift elbows up until you feel a comfortable stretch.
- 6. Look at your thumbs and take 3 relaxed breaths.
- 7. Release on an exhale.
- 8. Repeat second side (left thigh on top, right arm on top).

*If practicing on the floor, you can substitute Standing Eagle, or sit with crossed legs and simply do the Eagle arm positions.

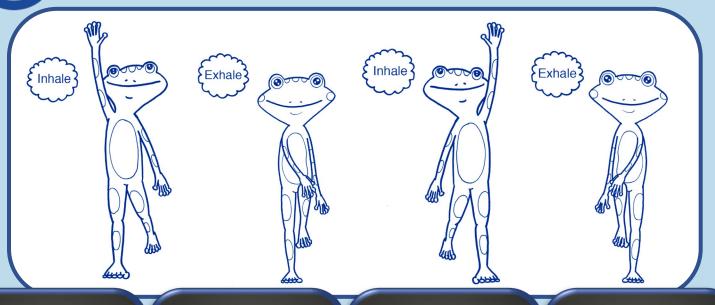








Engaging Activity: Brain Balance Sequence

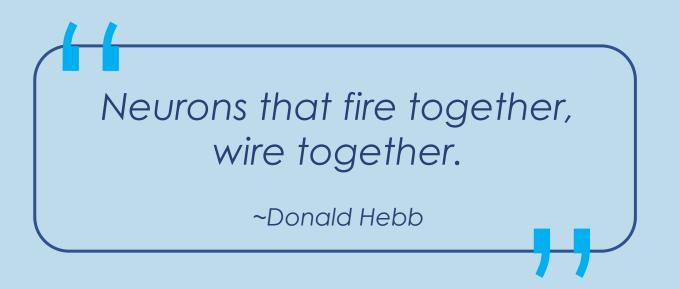




- 1. Inhale, take the right arm overhead and the left foot slightly behind, placing only your toes on the floor.
- 2. Exhale, lift the left leg, knee bent, and touch the right hand to the inside of the left knee.
- 3. Inhale, return the right arm overhead and the left foot slightly behind placing only your toes on the floor.
- 4. Exhale and again lift the left leg, knee bent, and touch the right hand to the inside of the left knee.
- 5. Repeat on the other side.



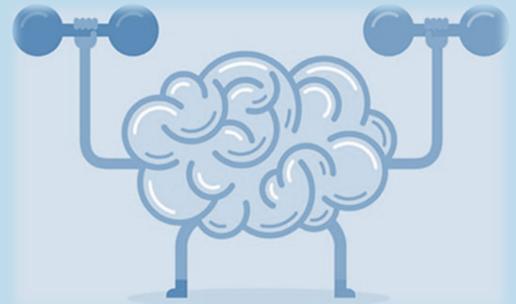
Neuroplasticity



Scientists have found that new habits, ideas, and thoughts can be continually learned and changed throughout our entire lives. Sensory input prompts neurons to communicate, and if particular neurons communicate with one another often enough, a strong neural connection is made.

Neuroplasticity

- There are as many neurons in the brain as stars in the Milky Way: about 100 Billion.
- The brain physically stops growing around 18, but it keeps changing forever.
- By design, our brains are all about growth and change - as is the whole human body.
- Celebrate mistakes that make the brain grow.







Self-Care Practice

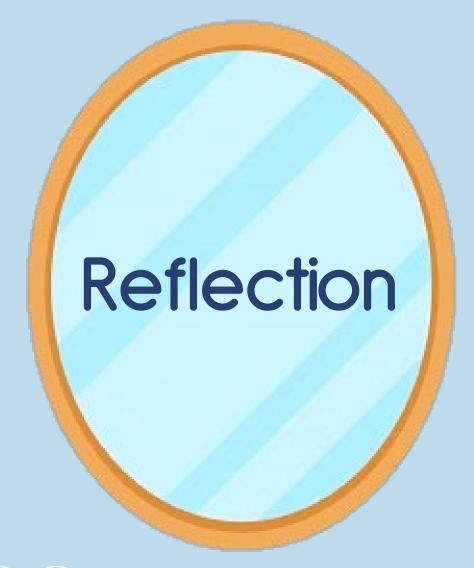












Please take out your phone, laptop or notebook for a two-minute free write. The goal is to check in with yourself.

What is on your mind? or How are you feeling?



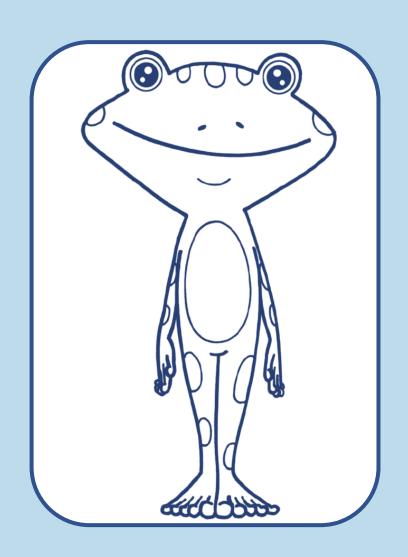
Movement Sequence

Mountain Half Opening Sequence A x3 Big Toe Star into Triangle Tree Sandwich Table Butterfly Seated Mountain **Guided Rest**





Mindful Movement: Mountain

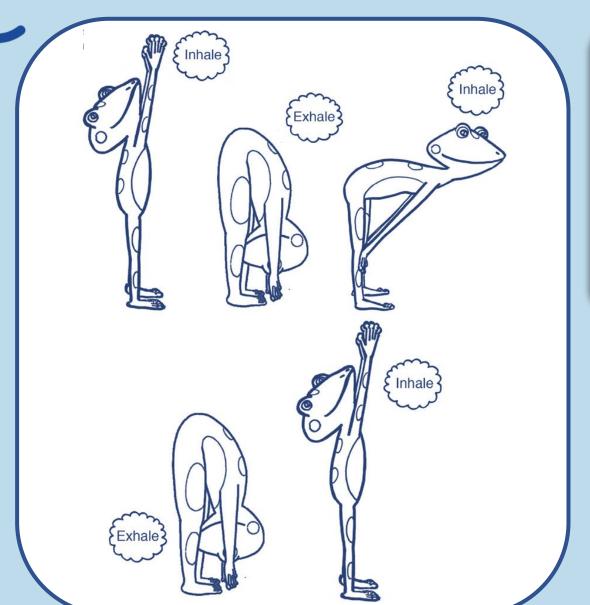








Mindful Movement: Half Opening Sequence A



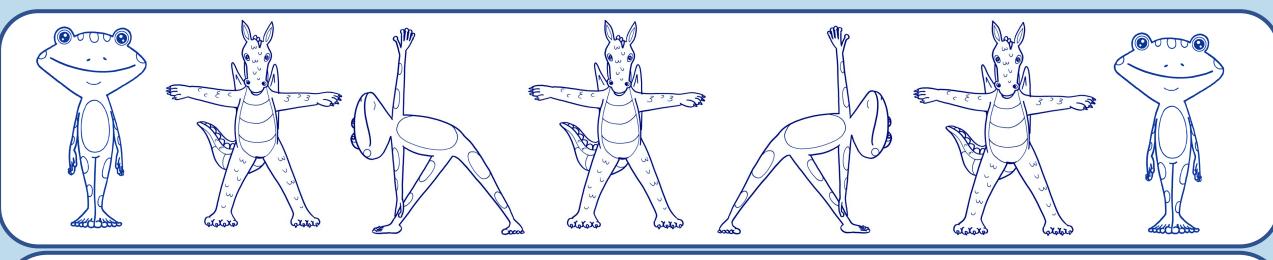




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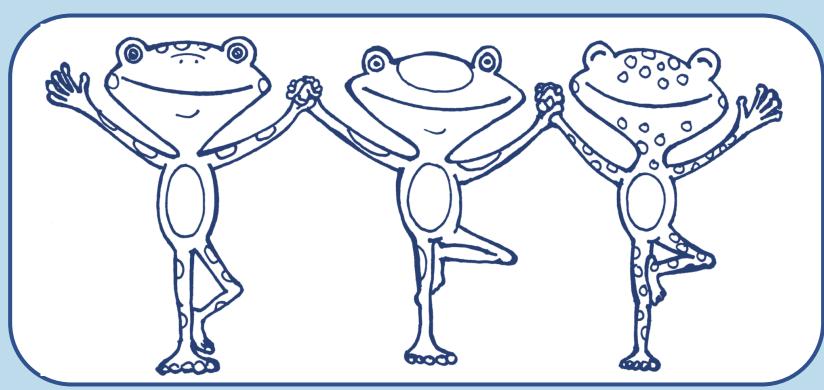
Mindful Movement: Starinto Triangle







Mindful Movement: Tree or Forest



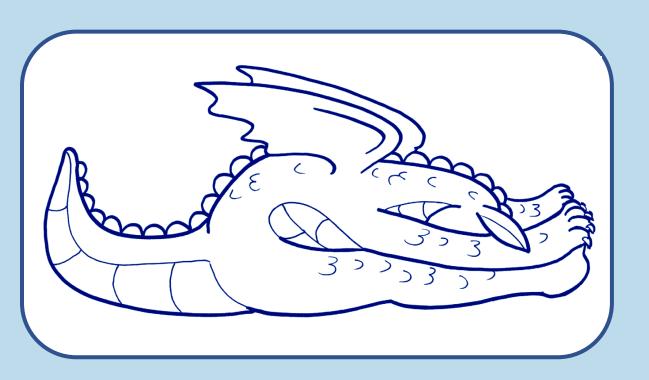








Mindful Movement: Sandwich



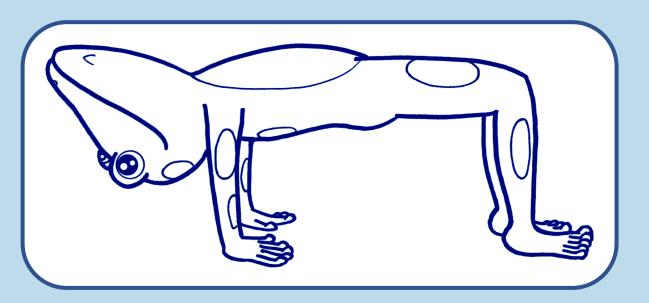








Mindful Movement: Table









Mindful Movement: Butterfly













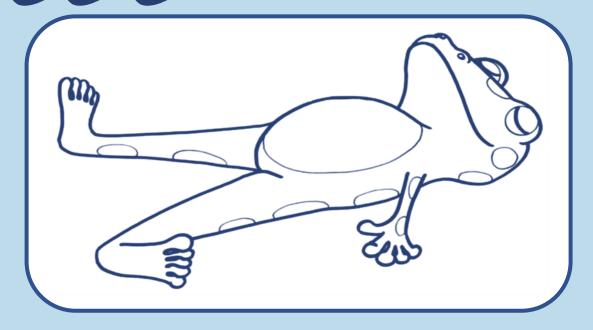
Mindful Movement: Seated Mountain







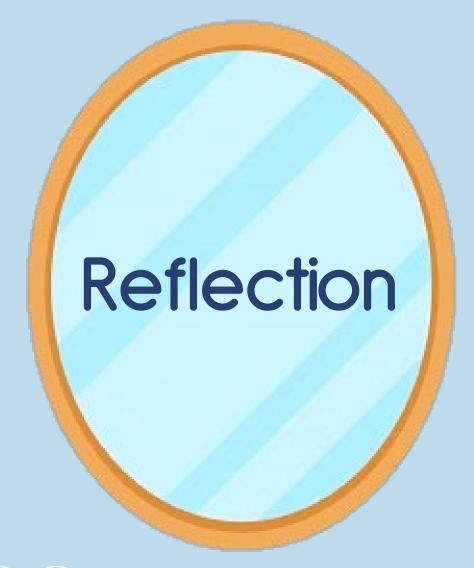
Engaging Activity: Guided Rest







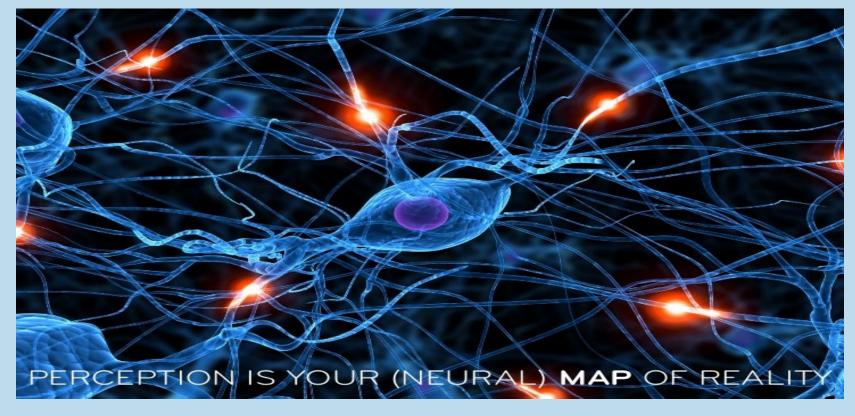




Please take out your phone, laptop or notebook for a two-minute free write. The goal is to check in with yourself.

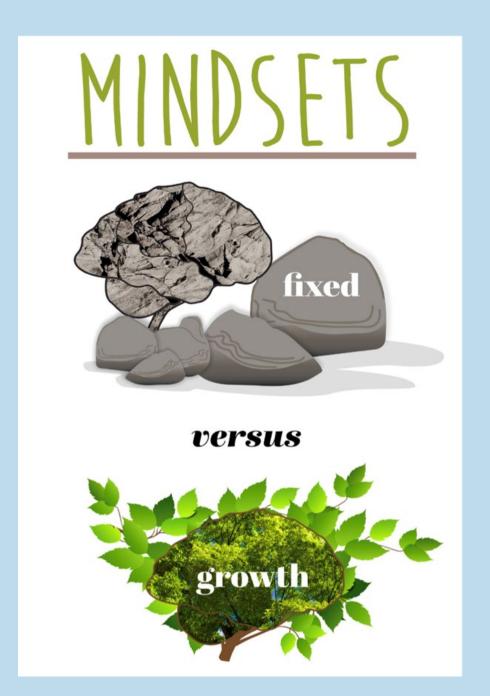
What is on your mind? or How are you feeling?

Neuroplasticity

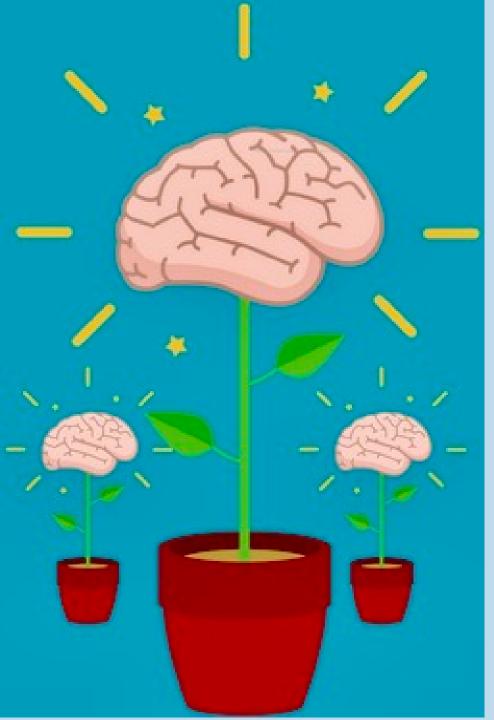


Stanford University professor and world-renowned psychologist, Carol Dweck, Ph.D, conducted a landmark study which found that when students are taught that intelligence is *not* fixed but is changeable, it made a dramatic impact on both their grades and morale.





A growth mindset inspires the necessary ingredients for achievement: a love of learning, perseverance, courage, and resilience. Neuroscientists have proven that the growth mindset works because our brains are constantly changing and growing, enabling us to learn new things.



The Power To Grow and Stretch teaches the principle of resilience and cultivating a "growth mindset."

Attitude affects behavior and the ability to succeed in different environments.

Focus on how to recognize negative self-talk, or a fixed mindset, and develop the positive self-talk of a growth mindset.

Developing a growth mindset empowers us to face daily frustrations with more mindful responses and maintain effort despite setbacks.



Engaging Activity: Attitude of Gratitude



- 1. Sit comfortably, and if you like you can close your eyes.
- 2. Think of something/someone in your life for which you are thankful, or grateful. It can be anything or anyone!
- 3. Take a few moments to just appreciate this thing or person.
- 4. Now think of another thing or person for which you are grateful.
- 5. Take a few moments to appreciate this thing or person.
- 6. Notice how you feel.

*This is a nice exercise to take a few responses from learners after the exercise is finished.

^{*}As you introduce this exercise, you might want to model an example for learners before bringing them through the exercise.

Brain Breaks Review



- Mindful Minute
- Alternate Nostril Breathing
- ❖ Even In Even Out



- Seated Forward Bend
- Sunrise/Sunset
- Recharge Sequence
- Seated Figure Four
- Chair Eagle
- Brain Balance Sequence
- Movement Sequence



- ❖ One Minute Reflection
- Attitude of Gratitude



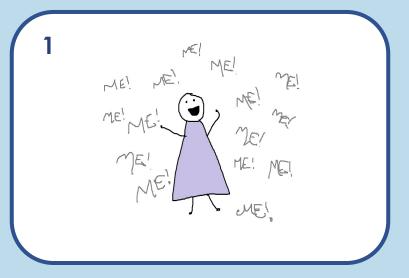


Takeaways

- * How does stress impact the brain.
- The connection between self-care and Vagal Tone
- Use Breathe, Move, and Rest strategies to create positive neurological pathways.
- * Repetition makes new neurological pathways stronger.
- Skills become habits.
- The brain continues to make new connections

Optimistic Closure: Synectics

"Self-Talk" is like...









Because...



Today's Reflection

Self:

- 1. Choose 2 Breathe, Move, and/or Rest Brain Breaks to practice independently. Note how you feel before (pre) and after(post) your practice
 - 2. Identify one new strategy of interest to you for improving brain growth.

Online Class:

Using the SEL curriculum as guidance, plan and facilitate a discussion about neuroplasticity with students.

Together in Class:

Using the SEL curriculum as guidance, plan and facilitate a discussion on growth mindset vs. fixed mindset.



HEADSPACE: Mindfulness On Demand





Headspace is donating their app to all Educators.

go.headspace.com/pureedge

Use your work email address

pureedgeinc.org









<u>Please Note</u>: You will receive a follow-up email within 24 hours of this session. This serves as your confirmation of attendance.

Thank you for joining us!

Session 2: Culture of Care Institute
Trainers: Gill McClean & Anne Contreras

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Email: getmoving@pureedgeinc.org

