

Thank you for joining us!

Session 5: The Neuroscience of Stress, Part 2
Trainer: Anne Contreras
Director of Programs

Getting Started:

- 1. If you have any questions, please type them into the Q&A box!
- 2. At the end of this session, when you leave the meeting, there will be a link that will pop-up asking you to complete the Session Quiz / Feedback Form.
- 3. You will receive a follow-up email within 24 hours of this session. That email will serve as your confirmation of attendance record for this session.

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Culture of Care Series: Session 5

The Neuroscience of Stress: Part 2



Your Instructor

Anne Contreras, MACP, MFTi #87444
Director of Programs - National Trainer
anne@pureedgeinc.org

PhD Studies:
International Psychology
Trauma/Systems Concentration,
Global Crisis Informed Care



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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.



Welcoming Activity

So far, which

Brain Break

do you enjoy doing the most?



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Welcoming Activity

- 1. Anchor Breathing
- 2. Breathing Ball
- 3. Chair Pose
- 4. Chair Twist
- 5. Even In Even Out
- 6. Seated Cat/Cow
- 7. Seated Figure Four
- 8. Seated Forward Bend
- 9. Starfish Breathing or Take 5
- 10.Sunrise/Sunset



Pure Power Curriculum

Grades K-5

- ❖ Unit 1 The Power to Be Calm
- Unit 2 Power to Tame Your Temper
- Unit 3 Power to Laser Focus
- Unit 4 Power to Grow and Stretch
- Unit 5 Power to Lead with Kindness

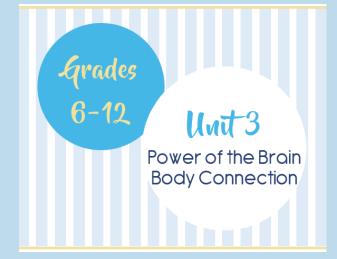
Grades 6-12

- ❖ Unit 1 Power to Shine
- Unit 2 Power of Mindfulness
- Unit 3 Power of Brain-Body Connection
- ❖ Unit 4 Power of a Balanced Life
- ❖ Unit 5 Tool Kit for a Balanced Life



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Pure Power





Learning Objectives

- Learn about the Vagus Nerve.
- Understand the affects of the Vagus Nerve on emotions and the Nervous System.
- Toning the Vagus Nerve.
- Experience Breathe, Move, & Rest Practices
- Continue learning to align with SEL lesson structure



We will always practice

- 1. Self-care
- 2. Brain Breaks
- 3. Modeling SEL Lesson Structure 😂











Engaging Activity: Anchor Breathing





- 1. Sit down and get comfortable.
- 2. Rest your hand on your chosen breathing space: tummy, chest or your nose.
- 3. Do your breathing and keep your attention on your breathing space.
- 4. When your attention wanders, gently bring it back to your breathing space.
- 5. Can you be mindful of your breathing for 5 breaths? For 1 minute?

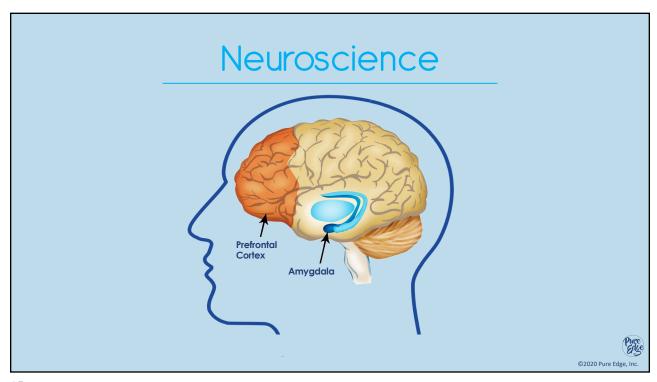


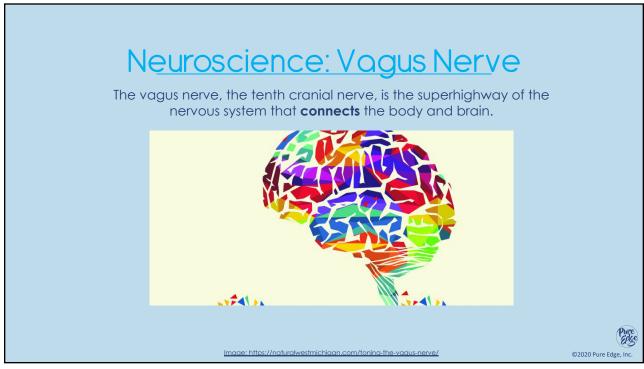
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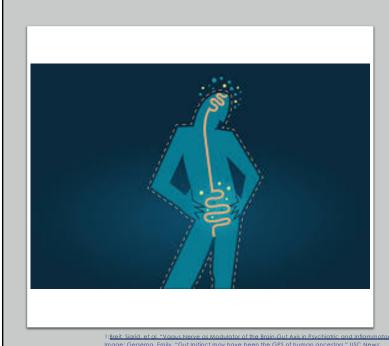
Guiding Question

How does mindfulness practice tone the Vagus Nerve?









Vagus Nerve

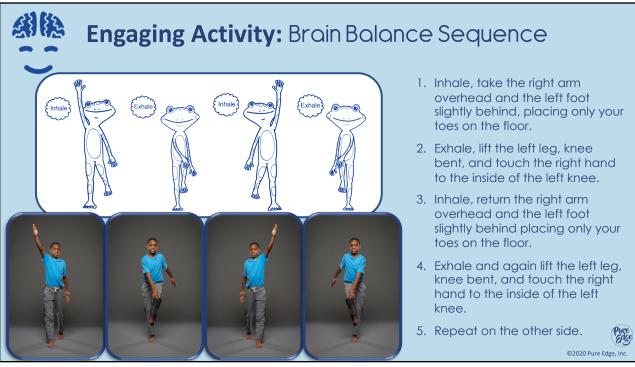
Latin for "wanderer," which is appropriate for the longest cranial nerve in the body.

It is intricately connected to:

- Mood
- Immune response
- Digestion and
- Heart Rate 1

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It is also associated with the sensing and expression of emotions.

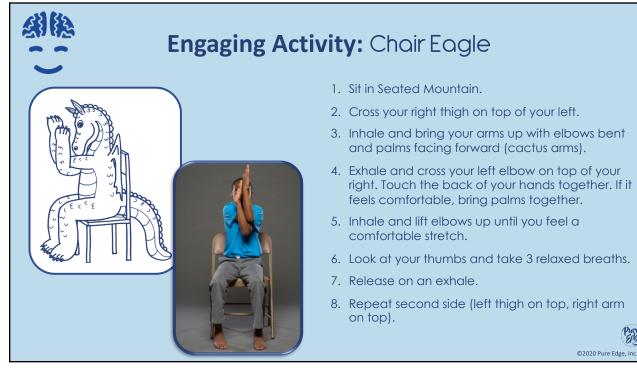


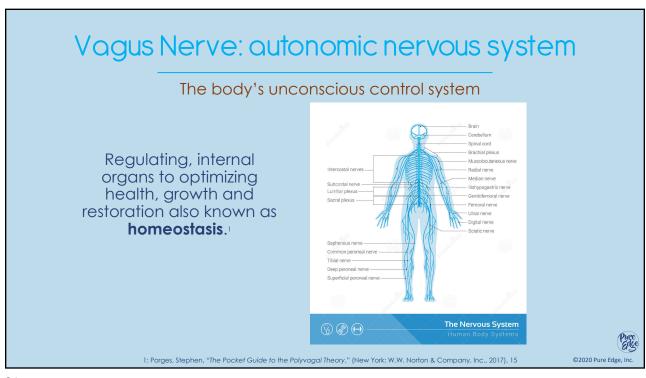
It innervates (supplies) the **vocal cords** and modulates (varying strength/tone/pitch) how we change **our voices to express emotion**; **our faces**, where we <u>convey</u> emotion; and courses **along our hearts**, where we often <u>feel</u> emotions.

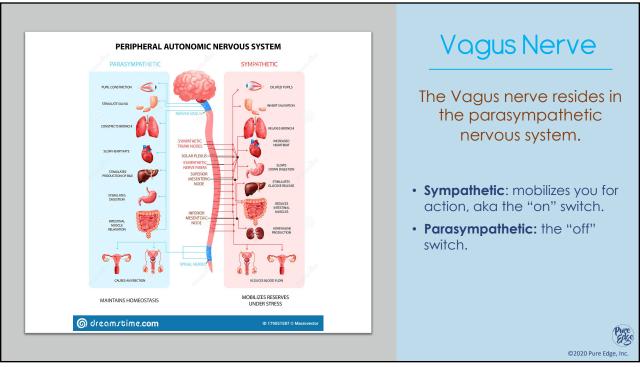


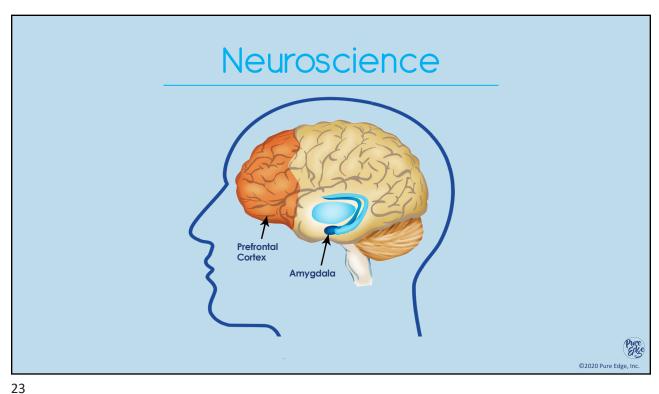
1: David DiSalvo, "Forget survival of the Fittest: It is Kindness That Counts," Scientific American, 2009.

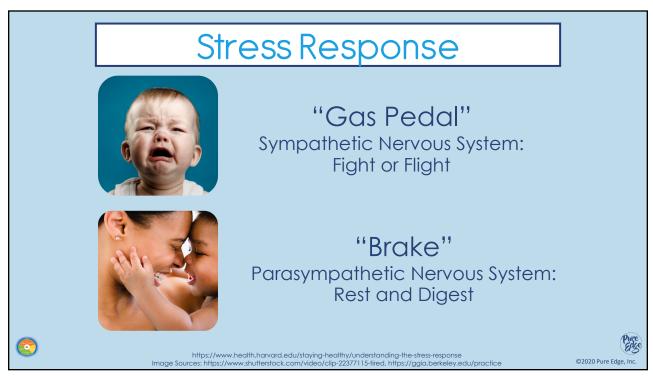
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Engaging Activity: Alternate Nostril Breathing



Notes:

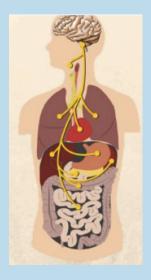
*The hand movements will take some practice to feel comfortable.
*If thumb and pinky are too hard for learners to coordinate, you could use right thumb to close right nostril and left thumb to close left nostril.
*Once your learners have mastered the hand movements, helpful verbal cues are: inhale right, 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.



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Neuroscience: Self-care & Vagal Tone



THE VAGUS NERVE

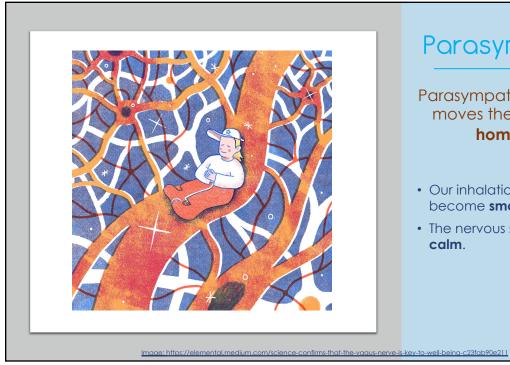
How to Hack Your Nervous System

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

When the vagus nerve is relaxed, strong emotions are quelled and stress is reduced.



http://depressivedisorder.blogspat.com/2015/09/7-ways-to-stimulate-your-vagus-nerve-to.html https://www.yogauonline.com/yogau-wellness-blog/vital-vagus-what-vagus-nerve-and-what-does-it-do



Parasympathetic

Parasympathetic activation moves the body toward homeostasis.

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

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What we hope to do Respond ©2020 Pure Edge, Inc.



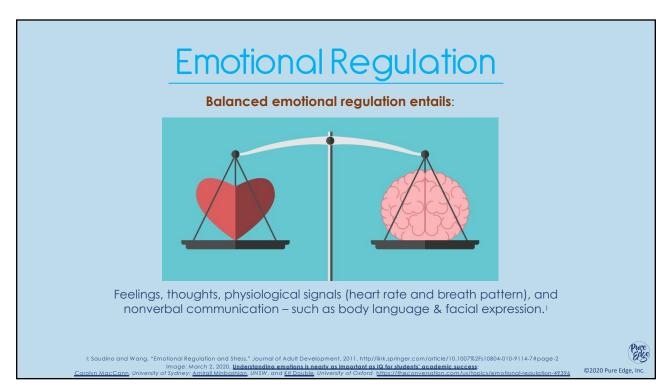
Engaging Activity: Chair Boat

- 1. Slide your chair back from your desk so that your knees are not under your desk.
- 2. Start in Seated Mountain.
- 3. Hold on to the seat of the chair or the back of the chair with both hands.
- 4. Inhale, lift both feet off the ground. Keep your knees touching and stay balanced. Take 3-5 relaxed breaths. If this is difficult, you can lift one foot at a time.
- 5. See if you can lift your knees a little higher and stay balanced.
- 6. If you feel steady, see if you can stretch both arms out straight in front of you, shoulder height, parallel to the floor.
- 7. Exhale, put your feet back on the ground and return to Seated Mountain.

*If practicing on the floor, simply substitute boat pose.
*To modify, try lifting one foot at a time.



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Engaging Activity: Guided Rest / Body Scan

- Turn your palms up to face the ceiling and close your eyes.
- 2. Put your attention on your forehead. Feel your forehead relax.
- 3. Put your attention on your eyes. Feel your eyes relax.
- Put your attention on your cheeks and jaw. Feel your cheeks and jaw relax.
- 5. Put your attention on your neck. Feel your neck relax.
- Put your attention on your shoulders. Feel your shoulders relax. (Repeat for arms, wrists, hands, fingers.)
- 7. Put your attention on your chest. Feel your chest relax.
- Put your attention on your back. Feel where your back touches the floor (or the chair).
- 9. Put your attention on your belly. Notice how the breath moves the belly softly up and down.

- Lie down on the floor on your back. Spread your feet apart. 10. Put your attention on your hips. Feel your hips relax. (Repeat for leas, knees, ankles, feet, toes.)
 - 11. Bring your awareness to your breathing and notice where you feel the breath in your body. Maybe you notice it in your nostrils. Maybe you feel it in your chest. Maybe you feel it in your belly.
 - 12. See if you can get really quiet. Maybe you will even feel your heart beating inside your body.
 - 13. Let learners rest in silence for a few moments.
 - 14. Ring chime.
 - 15. Slowly start to wiggle your fingers and toes. Take a deep breath in and stretch your arms overhead. As you exhale, relax.
 - 16. Open your eyes and slowly return to a seated position.
 - 17. Notice how you are feeling.



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Optimistic Closure: Use one word to finish the sentence, I feel balance or homeostasis when...



Photo: Juan Monino



Brain Breaks Review







- * Mindful Minute
- Anchor Breathing
- Alternate Nostril Breathing
- Brain Balance Sequence
- Chair Eagle
- Chair Boat

Guided Rest/Body Scan



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Takeaways

- ❖ Vagus Nerve: Body-Brain Connection Emotions.
- ❖ Vagus Nerve: Parasympathetic-Sympathetic Nervous System.
- Vagal Tone
- Emotional Regulation
- Breathe, Move & Rest Brain Break Practices
- The 3 signature practices to integrate SEL into a lesson are:
 Welcoming Activity, Engaging Activity, and Optimistic Closure.



Homework

Self?

Notice when you feel: rushed, energetic, hyper, or worried – sympathetic.

Notice when you feel: relaxed, at ease, or mellow – parasympathetic.

Every time you take a conscious breath, **purposely lengthen** the EXHALE.

Online Class?

15-minutes into an online class session, allow yourself and your students a break by interjecting the **Chair Eagle**, Brain Break for 3 breaths.

Together in Class?

After signing up for a curriculum account at www.pureedgeinc.org:

1) Go to the online curriculum 2) Go to the BRAIN BREAK videos

3) Watch the video for ANCHOR Breathing to eventually, do in class with your students.



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