If your plan is for 1 year, plant rice. If your plan is for 10 years, plant trees. It your plan is for 100 years,

Educate <u>All</u> of Them!

Social Emotional Health as We Shelter in Place: Best Practices and Resources



Kenneth Wesson Educational Consultant: Neuroscience San Jose, CA kenawesson@aol.com The greatest obstacle to discovery is not ignorance - it is the *illusion* of *knowledge.*" -- Daniel J Boorstin

It's not what we don't know that makes learning so difficult. It is what we have learned that is the larger obstacle to formal education.

We have been trained to close our minds to one of the most important factors influencing student learning although it is literally right in front of us every minute, but we've been convinced that it should be ignored -- Emotions.







Happy Open

Anary Open

Happy



Anary





Disgusted

Disgusted Open Fearful Fearful Open







Social Emotional Health as We Shelter in Place

- What is SEL? What is emotional literacy?
- How does the biological and emotional human brain (1) work, and (2) learn? What emotional (non-instructional) factors impact student learning and memory?
- Are there easy "Brain-considerate Tips" that we can deploy that will help our families cope in these unprecedented times?

(a highly visual brain – 6X)



Social Emotional Health as We Shelter in Place

- Clinical psychologists family life has changed dramatically during the new SIP era mandated. Results → range from feelings of "social isolation" to never-before-seen family tensions due to being forced to operate in "tight quarters" with no outlets.
- Parenting is difficult in the best of times → now attempt to juggle work, online schooling, parenting and some semblance of personal space with personal time as we SIP.
- What are the new challenges? How do we cope? How will a better understanding of SEL help all of us?



Social Emotional Health as We SIP

New family tensions:

 When humans (mammalian species) are packed closely together - "violating my space" – studies have shown predictable negative consequences.

Today's added features:

- Adults worried about losing their jobs or ensuring there's enough food, paying the rent/mortgage and car note, energy costs, regular monthly bills → an unprecedented level of stress on more adults than ever before.
- During difficult times, physical comfort (hugs, handholding, arm-over-the-shoulder, kisses, sitting on laps, etc.) become important prophylactics to the stress and tension caused by uncertainty - part of our role is to communicate to a child that they are in a physically and emotionally safe and stable environment.





As far as the human brain is concerned a home or a school equipped with the latest technology, and the best-intentioned adults will not counterbalance an *absence of emotional and physical safety.*





Saber-toothed Tigers and stressed-out students: an examination of the neuroscience behind safe, secure learning environments

"There is a growing body of neurological evidence supporting the notion that if students do not feel safe, secure and comfortable in a learning environment, their ability to learn is severely compromised, regardless of the quality of instruction or the level of instructional expertise demonstrated by the classroom practitioner."

> Safety is a *learning requirement*





Maslow's Hierarchy of Needs



Social Emotional Health as We SIP

Today's challenges:

- Food and housing instability
- > Job insecurity
- Inadequate healthcare (possible exposure to CV-19).
- When children get emotional, this is not a time to

 (a) criticize them for being emotional
 (b) respond by becoming equally or more emotional than the child.
- Check your own emotions before responding tersely.
- Ask the child
 - > "How can I help you resolve this problem?
 - "What can we do together in search of a solution?"
- During the pandemic, our children need more compassion and empathy than under normal circumstances.



Social Emotional Health as We SIP

 Going to school daily was a predictable event with built-in consistent and reliable school schedules and rituals that kids became accustomed to experiencing every day.

- Staying in the home 24/7 is both a challenging assignment and an abnormal constraint on your average child.
- Closeness is a human asset, but too much closeness can lead to discomfort
 - "I need my space"
 - \succ Confined quarters \rightarrow stress \rightarrow violence (abuse)
 - SIP → ↑ stress on even the best of parent-child relationships
 - Brain-considerate Tips



Emotions

"An emerging theme in brain research is the question of how emotions interact with and influence other domains of cognition, in particular attention, memory, and reasoning."

Dolan, R. J. Emotion, cognition, and behavior. Science. 298(5596): 1191-1194 2002



"I Have a Discipline Problem." No! You Have an *Engagement* Problem







Engagement

- Phenomena-based learning
- Inquiry (an onslaught of questions)
- Student-centered learning
- Social connections

$\begin{array}{c} \textbf{Emotions} \rightarrow \textbf{attention} \rightarrow \textbf{learning} \rightarrow \\ \textbf{memory} \text{ (integrated in the brain)} \end{array}$





Emotions and Task Performance

Task Completion

To Start Motivation Desire To Continue

Persistence

Commitment

At the End

Satisfaction/enjoyment

Intrinsic reward



Emotions play a role at every stage in task performance, and the feelings we have about learning.



Emotional Literacy



Emotions: Internal subjective states that we infer in ourselves/others.

- Emotions are private experiences.
- We use operational definitions because we cannot actually <u>see</u> feelings (so, we "read" faces)
- We *infer* observable behavior and associate it with an emotion we recognize (from experience).



Empathy: Emotional Literacy

What is emotional literacy?

Emotional literacy involves the ability to identify, understand, and express emotions in a healthy way.



ACHIEVING EMOTIONAL LITERACY A PERSONAL PROGRAM TO INCREASE YOUR EMOTIONAL INTELLIGENCE



CLAUDE STEINER Pho with PAUL PERRY



Social Emotional Learning (SEL) is...

The process by which children and adults acquire and effectively apply the knowledge, attitudes, and skills necessary to...

- 1. understand and manage emotions
- 2. set and achieve positive goals
- 3. feel and show empathy for others
- 4. establish and maintain positive relationships
- 5. make responsible decisions.



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Social and Emotional Learning



- Building/maintaining relationships
- Working cooperatively/resolving conflicts
- Communication/social engagement
- Helping/Seeking help



What Do We Want to Cultivate Emotionally in Our Children?

- A sense of confidence and competence
- Ability to persist at tasks
- Ability to develop healthy relationships with peers and adults/make friends/get along with others
- Ability to follow directions
- Ability to identify, understand, and communicate his/her own feelings/ emotions
- Ability to constructively manage strong emotions
- Develop and maintain a sense of empathy





Emotional Literacy: Relationship Skills



- Think about children you know who are well liked and friendly...
- What do you notice about their behavior and expressions that make it easier for them to be liked and to make friends?
- What makes them different?

Their sense of empathy





- What is empathy?
- Empathy (L.) "feeling from inside" seeing how it feels looking from the inside of someone else's eyes (inside their "mind.")
- It involves experiencing the feelings of another person while maintaining one's *own identity*.
 - Empathy is the identification with and the understanding of another person's emotions/feelings in a given situation.





Empathy at Home & in the Classroom

"The essence of empathy is the ability

to stand in another person's shoes
to feel what it's like to be there
to care about making it better for someone else, if it seems to hurt." Szalavitz, M. & Perry, B.D. (2010). Born for love: Why empathy is

"Empathy is actually a *hypothesis* we make about another person based on a combination of visceral, emotional, and cognitive information...an attempt to experience their inner life of another while retaining objectivity."

Cozolino, L. (2006), The neuroscience of human relationships: Attachment and the developing social brain.

Where do we get information to form that hypothesis?



Empathy in the Classroom

- The emphatic person senses the other person's bewilderment, anger, fear or love "as if" it were his own feeling, but he does not lose the "as if" nature of his own involvement. (Robert Bolton, People Skills, 1987)
- Movies, novels, situations







The Mirror Neuron System (MNS)

- Mirror neurons are the neurological source of *empathy* (relationship learning).
- When we see a facial gesture, our brains automatically mirror the face and send a message to the limbic system. Once this emotional reaction has kicked in, we understand the other because we have become the other emotionally ("sharing neural circuits" - stories, sports, plays, movies, etc.)







Emotions: Mirror Neurons









A biological brain



and an emotional brain





The Four Basic Emotions*



(+ surprise, disgust)



The Triune Brain

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THE RELEASE OF THE RELEASE

NAME AND ADDRESS



Paul McLean

Executive functions and "HOTS"



emotions







Dr. Robert Plutchik



The three primary colors can be combined to make all other colors, but the other colors cannot make the primary colors.





SEL Challenge in Education: Content vs. Treatment

Definitions of equity – involve eliminating any and all barriers that limits an individual's access to opportunities (educational, economic, etc.) in a given geographic area.

1. legislative barriers (legal segregation)

2. Psychological barriers

The consequences are identical



Case Study: A Class Divided

- Third-grade teacher Jane Elliot divided her students into groups of browneyed and blue-eyed children.
- She told the class that it had been discovered that brown-eyed children were superior to blueeyed children in every way, and that from now on the brown-eyed children would receive their welldeserved special treatment.
- The two groups of children internalized their new status and the new rules. The blue-eyed children became despondent and were emotionally defeated.





As a man thinketh in his heart, so shall he be.

James Allen

📧 quotefancy



Case Study: A Class Divided

- The blue-eyed children were not allowed to play with their superiors, the brown-eyed children.
- The blue-eyed children lost interest in playing at recess.
- The blue-eyed children began to misbehave in class, began answering fewer questions, and began to perform poorly on tests ("self-fulfilling prophecy").



Sometimes the thing that is holding you back...



...is all in your head.

(TTT)



We don't see things as *they are;* we see them as we are.

-- Anais Nin



The relationship between you and your child/student

- What are the strongest messages that I consistently communicate to my children/students about themselves, about learning (+ and -) on a daily basis?
- What emotional impact do these messages have on my children/ students?
- Are there long-term learning or emotional consequences?




Past experiences determine future expectations



Selective Attention: Expectations

- Researchers administered the Stanford-Binet Intelligence Scale-V to (30+) 1st grade students at the beginning of the school year. "The test results indicate that 5 students scored at or above the genius level (140)." → Confidentiality agreement: Teacher could not share the test results.
- Monitored the behavior of teacher & students
- At the end of the academic year, the students were re-tested to determine if there was any variance from the first set of IQ scores.
- Q: Guess how many scored at the genius level on the second administration of the test? Who? Why?



Selective Attention: Expectations

- A: The same 5 students.
- However, <u>their</u> scores on the 1st test were <u>not</u> even close to the <u>best scores</u> – only slightly ↑ average.

- * The *results* we get from students, often reflect what we expected from those students and how we nurtured them (causal effect) to achieve.







Labeling Students

Student labeling is not the central problem. It's what we do with and about those labels that causes us to perceive, interpret, and take actions based on those labels -that is the greatest proportion of the problem.

John Hattie's research involved over 251 influences on learning.

- Not labeling students has an effect size of .61
- That is significantly over the .40 that equates to one year's growth for a year's input.

His research showed is that providing a label to a student in many cases creates a glass ceiling, which means that the students "work to their label," and not always above it. Labeling a student did more harm than good.



Early Brain Development







Zero To Three: <u>1 Million Connections/Sec.</u>

Dr. Jack Shonkoff's team (HU's Center on the Developing Child) had previously found that the brain makes 700-1000 new neural connections/sec 0-3. However, their latest research found the number to be over 1 M connections/sec.

Healthy Positive Emotions \rightarrow





All Day Is a Brain-building Experience!







Normal Development *Requires* Social Interactions





Positive Experiences That Build the Young Brain



- Loving care & touch
- Consistent, individual attention
- Everyday, simple activities (large boxes).
- Exposure to new experiences
- Understanding child development
- Talk, talk, talk

- Music
- Limit TV/Tech (screens)
- Interactions and responses
 - **Read and respond to** child's cues
- Know child and what he/she is capable of doing
- One size does not fit all



What is the impact of negative emotions on the human brain?







emotions

memory

hippocampus

The hippocampus of children with *poorly controlled diabetes* can suffer irreparable damage from *repeated hypoglycemic episodes* The impact of stress is considerably more destructive to the hippocampus.





Angiography Imaging Technology



Fear or hemodialysis



Negative Emotions $\rightarrow \rightarrow \rightarrow \rightarrow$







Compared to a *healthy* neuron, stressed neurons generate a weaker signal and extend fewer connective branches (synapses) to other brain cells.







Chronic stress or "toxic stress" can 1. lead to the physical destruction of neurons in the hippocampus (an area in the brain associated with learning/memory storage.) 2. modifies the hippocampus, reducing a child's learning capacity (Vythilingam, 2002) **3.** shrinks neurons in the frontal lobes decreasing one's executive functions - planning, judgment, controlling impulsivity (Cook & Wellman, 2004).



The Neuroscience Behind Safe, Secure Learning Environments

"To a learning brain, new curricula, the latest i-Pad, and the best-trained teacher will <u>not</u> offset the absence of physical and emotional safety." – *K. Wesson*

THIS IS YOUR BRAIN ON FEAR

Thalamus, essentially a giant switchboard that directs information to other parts of the brain.

Hippocampus, sensory cortex and <u>anyodala</u>, areas of the brain that establish situational and emotional context and officially deem the situation as fearful. Hypothalamus, where the fight-or-flight response is activated. Messages are sent to the kidneys' adrenal glands, which release stress hormones.

Frontal and temporal lobes, higher cortical areas where experiences of dread occur, release chemicals like dopamine that can cause panicked, irrational behavior. "...stressed-out brains (in students or adults) are physically incapable of establishing and maintaining the requisite neural connections inside the brain that are necessary to support content-related learning as well as long-term **memory** formation."

Safety is an Equity Issue





Effects of Stress

The American Academy of Family Physicians estimates that 60% of the problems brought to physicians in the U.S. are stress related. Many are the result of stress; others are made worse or last longer because of it.



Continued stress in the learning environment causes the increased secretion of cortisol, which constantly stimulates the bodies' alarm systems, and learning and memory become the first casualties.





Still Face Experiment: Dr. Edward Tronick

(Serve and No Reception)



Adverse Childhood Experiences Study (ACES)

Neglect Is the Most Prevalent Form of Child Maltreatment



Each state defines the types of child abuse and neglect in its own statute and policy, guided by federal standards, and establishes the level of evidence needed to substantiate a report of maltreatment. The data above, from the <u>National Child</u> <u>Abuse and Neglect Data System</u> (NCANDS), reflects the total number of victims (defined as a child for whom the state determined at least one report of maltreatment was found to be substantiated or indicated) as reported by all 50 states, the District of Columbia, and Puerto Rico, between Oct. 1, 2009, and Sept. 30, 2010. "Other" includes abandonment, threats of harm, and drug addiction.

Source: U.S. Department of Health and Human Services (2010)

Center on the Developing Child 😈 HARVARD UNIVERSITY

www.developingchild.harvard.edu



Neglect and Brain Development

3 Year Old Children



Normal



Extreme Neglect

Global Neglect and Reduced Brain Development

Healthy Brain

This PET scan of the brain of a normal child shows regions of high (red) and low (blue and black) activity. At birth, only primitive structures such as the brain stem (center) are fully functional; in regions like the temporal lobes (top), early childhood experiences wire the circuits.







Emotions and Learning



The environmental preconditions that should be experienced by students *prior to* initiating formal instruction include...



Inclusion, interactions and involvement Interpersonal/social aspect of memory formation After satisfying these prerequisite neurophysiological and hierarchical conditions, *students are biologically ready for...*



Learning Students feel their immediate environment is secure enough for them to take risks, explore and discover

Source: Kenneth Wesson (2011), Education for the Real World; Six great Ideas for parents and educators. Brain World, issue 2, Volume II Winter 2011

Students who have chronic safety concerns also tend to *underperform* academically (Pratt, Tallis, & Eysenck, 1997).





A Teacher's Mindset

Children/students (developing brains)







Direct Teaching of Emotional Literacy



(An emotional check-in - takes 3 minutes)

- How do your feel today?
- Would you like to feel differently?
- What do you need to do to change how you feel?



Setting the Emotional Stage for the Day



Human touch, "face-time," smile, recognition ("drop-outs") – "Sawu bona"



Setting the Emotional Stage for the Day



Music: "Celebration Time," "Happy," (60 beats/minute)

What are you thankful for as we start today?





Indirect Teaching



 Offer emotional labels as children witness/experience various emotional states –

"Brianna and Tanya seem really happy to be playing together! They keep hugging each other!"

 Describe what you see that tells you they are happy.



Managing Emotions: Making Choices

On Monday When It Rained



by Cherryl Kachenmeister Photographs by Tom Berthiaum







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COPING STRATEGIES problem solving for kids





Understanding Our Emotional Human Brain Emotions and Choices

Today, I am phenomenal! Refusing to be sad! I choose to live, and laugh, and love! Today, I will be glad!





What else might you have been able to achieve in life, if you had not been afraid to try?

Based on your answer, what important message should you communicate to your children and students?







Building

Supportive Relationships **PRE-school** = Positive **Relational** Experiences



Understanding Our Emotional Human Brain Emotion and Education

All learning requires effort, but one of the *best* predictor's of student effort and engagement in school is the relationships that they have with their teachers (Osterman, 2000.)

Students function more effectively when they feel respected and valued and function poorly when they feel disrespected or marginalized (National Research Council, 2004)

Children model their closest adults' behaviors


The positive impact of SEL on teachers

- 1. Teachers who possess social and emotional competencies are **more likely to remain in the profession longer**.
- 2. Teachers with high levels of social competence are better able to protect themselves from burnout by:
 - developing and managing healthy and respectful relationships with their students
 - managing behavior in their classrooms
 - serving as behavioral role models for children
 - regulating their own emotions

Source: Jennings, P.A. & Greenberg, M.T. (2009) The Prosocial Classroom: Teacher Social and Emotional Competence in Relation to Student and Classroom Outcomes. American Educational Research Association.



Adult SEL Competence

- Adults who can recognize, understand, label, express, and regulate *their* emotions are more likely to *demonstrate* patience and empathy, encourage healthy communication, and create safe learning environments. (Brackett, Katella, Kremenitzer, Alster, and Caruso, 2008)
- Teachers skilled in regulating *their* emotions report less burnout and more positive affect while teaching.

(Brackett, Mojsa, Palomera, Reyes, & Salovey, 2008)

 School leaders with ↑SEL competencies build and maintain positive and trusting relationships among members of the school community. (Patti and Tobin, 2006)



Why Social-emotional Learning (SEL) Matters





How Do We Move the Needle on Student Learning and Achievement?





Research on SEL/Student Success

Increased Academic Outcomes

Social-emotional skills led to improved attitudes about self, others, and school and an 11 % point gain on standardized achievement tests.

Reduced Risk of Failure

Social Emotional Learning skills led to decrease in behavioral/conduct problems and emotional distress and incidences of "acting out".

Source: Durlak, J.A., Weissberg, R.P., Dymnicki, A.B., Taylor, R.D., & Schellinger, K. (2011) The impact of enhancing students' social and emotional learning: A meta-analysis of school-based universal interventions. *Child Development:* 82 (1), 405-432.



The positive impact of SEL on students

Statistically significant associations between measured **SEL skills in** grade K and young adult outcomes across multiple domains:

K students \uparrow in SEL competence were *more likely* to:

- graduate from high school
- complete a college degree
 - obtain stable employment in young adulthood

And less likely to be:

- Iiving in public housing
- receiving public assistance
- involved with police
- in a detention facility

Source: Jennings, P.A. & Greenberg, M.T. (2009) The Prosocial Classroom: Teacher Social and Emotional Competence in Relation to Student and Classroom Outcomes. American Educational Research Association.

Ratio: \$1 to \$11



Be somebody, who makes everybody feel like somebody.





Positive Emotional Climate

- Showing respect and empathy
- Taking a personal interest in a child (one-to-one communications)
- Active listening "being there" for the moment
- Frequent contact through "face-time"
- Encouragement (not praise) "You really worked hard..."
- Avoiding all "Put Downs" use positive humor
- Building self-esteem (positive confirmations), celebrating accomplishments (rewards, recognition, etc.)





- Start off the day with "Sawu bona" and a hug 16 hugs a day for normal emotional functioning
- Set goals for the day
 - Exercise
 - Walk
 - Homework
 - "Check-in's"
 - Meals together
 - Downtime/family time



- Establish a semi-regular daily schedule. The predictable aspects of their lives have also disappeared, causing some to struggle more.
- Allow children to participate in planning the daily schedule you will gain new insight into the passions that your child may have (science, writing, STEM, etc.)
- Children benefit from structure and predictability the human brain evolved to rely on patterns which come from both routine and organization.
- Regular schedules minimize chaos and "I'm bored."
- Young kids often don't know how to cope with their unease or unhappiness, so they communicate their discomfort by becoming more testy and difficult.



- Validate their feelings.
- Walks a good time to build child-parent bonds.
- "Yes, we walked together."
 - > Walk and talk about personal challenges, goals, dreams
 - > high quality time together
 - ➤ "face time" eye-to-eye contact
- While walking together, point out the things you would not notice while driving by so quickly. (stop to smell the roses)
- A great opportunity to teach children to appreciate their surroundings by paying attention to the details of the natural and man-made worlds around them.
- Hold hands while walking (adult men in Africa and the Middle East walk and hold hands)

Relationships = Emotional Intelligence

Never stop doing what seem like little things for children. Frequently, those *little things* often wind up occupying the *biggest* part of their hearts and brains for a lifetime.





- KW "walk and read" strategy for children who are reluctant readers are struggling readers.
- Walk/exercise together: angiogenesis $\rightarrow \uparrow$ CBF.
- Youth sports is a \$25 billion U.S. industry that is essentially shut down. Muscular and skeletal development require movement.
- Establish a designated a place in the home (a child's bedroom, the family room, the kitchen, etc.) for homework and personal reading.
- Set timeframe during which children will do homework and create the necessary supportive conditions that will allow a child a quiet time/place for schoolwork. (The entire family can read).



- Downtime: alone time is healthy a "parent-ectomy" stepping away from emotionally escalating conversations or situations, which typically would not end well.
- Overwhelmed "helicopter parent"? believing the parent must provide 100% of the entertainment for the SIP child. Children need to identify what is emotionally fulfilling for them rather than a parent making that decision for them.
- When you are feeling overwhelmed, think and breathe \rightarrow more oxygenated blood to the brain $\rightarrow \uparrow$ thought-processing



Managing Emotions: The Turtle Technique

Recognize that you feel angry.

Go into your

shell, take 3

and think

beach").

deep breaths,

calming/coping

thoughts ("your

last walk on the



Step 3



60

Step 2

"Stop and Think"

-- Rochelle Lentini

Come out of shell when you are calm and/or have thought of a solution.

Cognitive reappraisal



- Be a positive role model who encourages pro-social behavior rather than negative, dismissive, or antisocial behaviors. Doing so will teach children how to manage their own emotions and behavior
- SIP is not a good time to decide you're going to correct every misbehavior or identify every "problem" that you have noticed in a child over the past several years.
- Now is not the time to create *new* restrictions or strictly enforce *old* restrictions. Maintain *the existing* home rules without creating new limitations → ↑ stress, emotional distance and → ↑ unnecessary conflicts making SIP even more challenging.



Modeling Desired Behaviors:





"Reflect and Connect"

"We don't *learn* from experience, we learn by *reflecting* on it."

-- John Dewey

- What was the most valuable idea that you learned from this afternoon?
- Please write down 2 "I will statements": How will you use the information shared today at home or with your students on-line?



How do we build strong children?

"It is easier to build strong children than to repair broken men."

 Frederick Douglass (1817-1895)







- The California Association of African-American Superintendents and Administrators (CAAASA)
- California Collaborative for Educational Excellence (CCEE)
- UCLA Center for the Transformation of Schools (CTS)





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