

the Education **REVOLUTION**

How to Apply Brain Science to Improve
Instruction and School Climate



**Horacio
SANCHEZ**

Thank you

FOR YOUR
INTEREST IN
CORWIN

Please enjoy this complimentary excerpt from The
Education Revolution.

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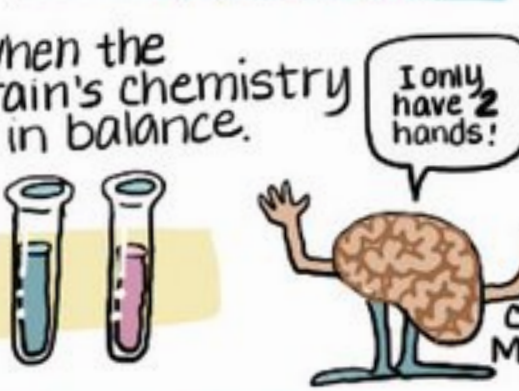


The EDUCATION REVOLUTION
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LEARNING → structural & functional changes in the brain



ADVANCED THINKING requires being tied to **CORE KNOWLEDGE** that has become automatic.



Success

The **AMYGDALA** has 3 desires:
- to be safe
- to be wanted
- to be **SUCCESSFUL**

Applies to even the most abnormal brains!

HOMEOSTASIS - when the brain's chemistry is in balance.

Threatened by stress



I only have 2 hands!



The brain cannot MULTITASK.

breathe.

The greatest predictor of success: the ability to self-regulate.

You only learn from **MISTAKES** if you regularly experience **Success**

The **AMYGDALA** will halt learning when it detects a threat.



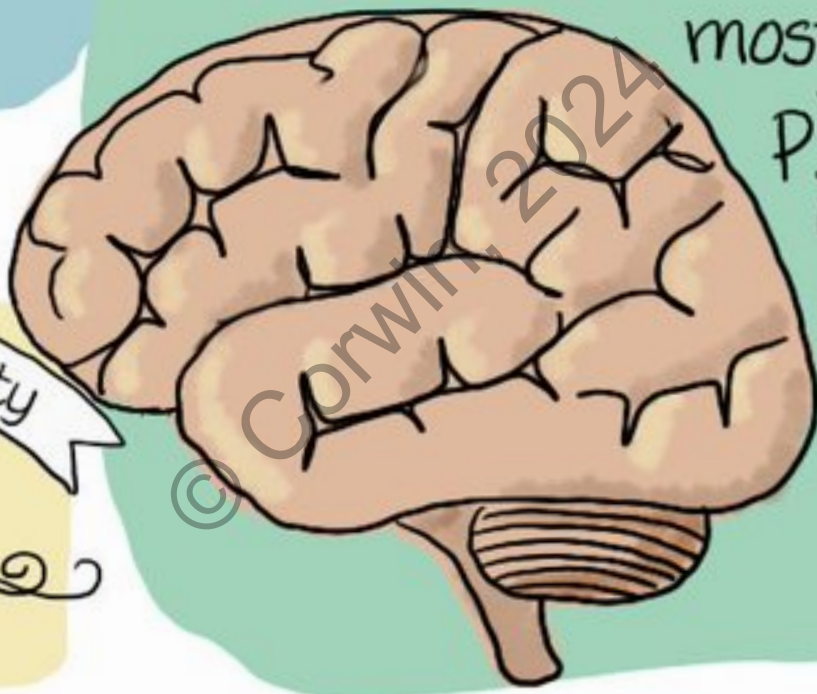
SAFETY & COMFORT are needed for the cortex to work well.

SOCIAL SKILLS have benefits for brain function & learning.



The New Reality
Schools must care for the **WHOLE CHILD**

Learning how the **BRAIN** works is one of the most valuable pieces of information a teacher can have.



Help your students learn to **FOCUS**

(FOCUS)

They are like uncut gems, needing successes to bring out their brilliance!

Struggling & gifted students often present with the same problems - **Fear of Failure.**

Strategies

INVOLVE MULTIPLE SENSES

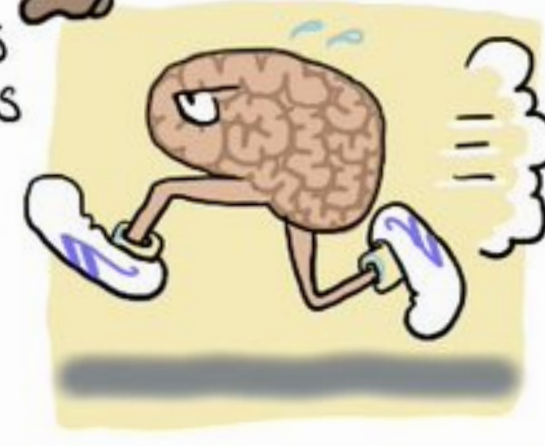


Relate new info to students' lives. Use shared language.

Incorporate **movement**

repetition repetition repetition

Teach students that the brain is like a muscle, made stronger by working (learning).



HUMOR

also has a positive effect on brain function.

Socialization is strongly correlated with higher-order thinking.

Empathy

is crucial for understanding at a gut level - the highest form of understanding.



Use of technology is **CHANGING** our students' **BRAINS.**



emotion

The best lessons in life or in a classroom make you laugh, think, or cry.



Beware Implicit bias

SNAP! both toward & between students.



SNAP JUDGMENTS

