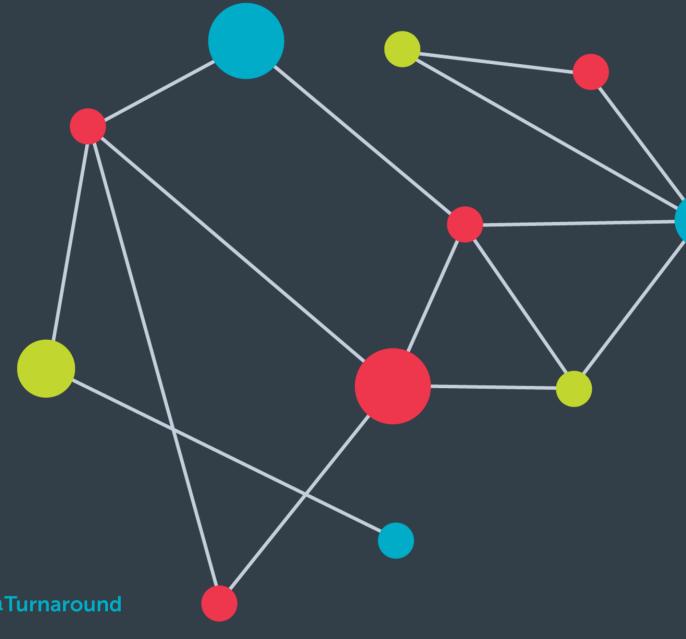
PAMELA CANTOR, M.D.

FOUNDER and **SENIOR SCIENCE ADVISOR**

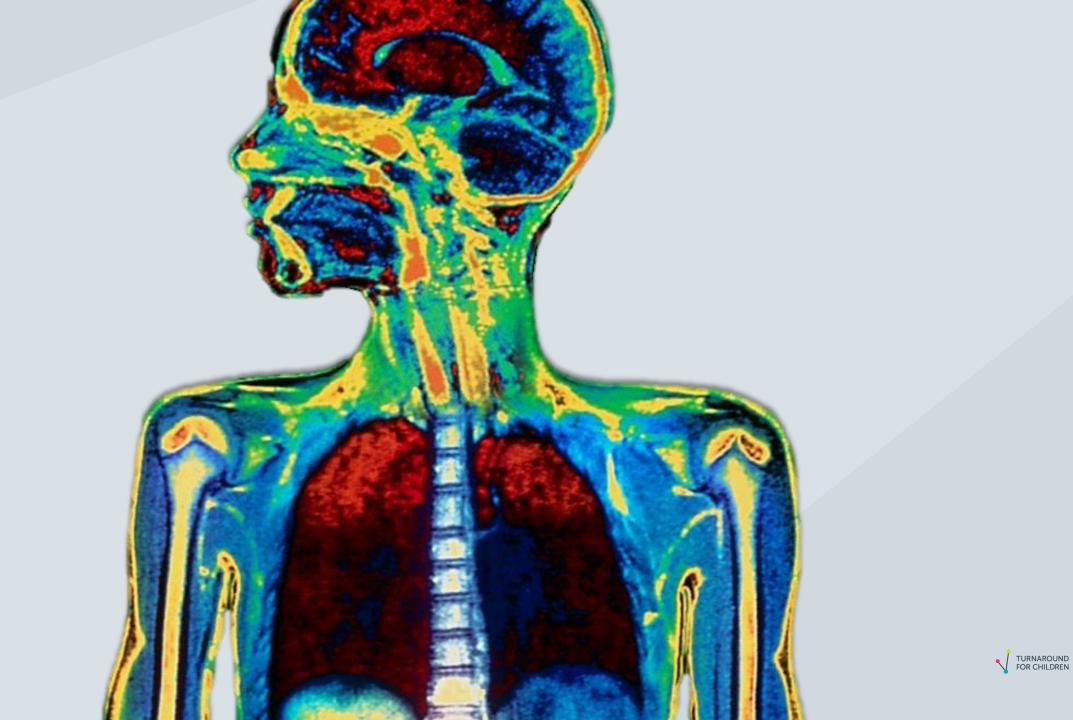


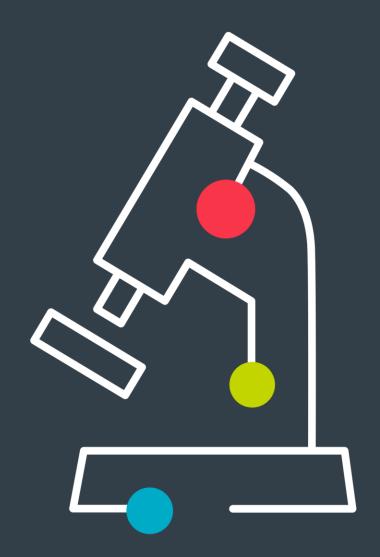


turnaroundusa.org



@DrPamelaCantor @Turnaround

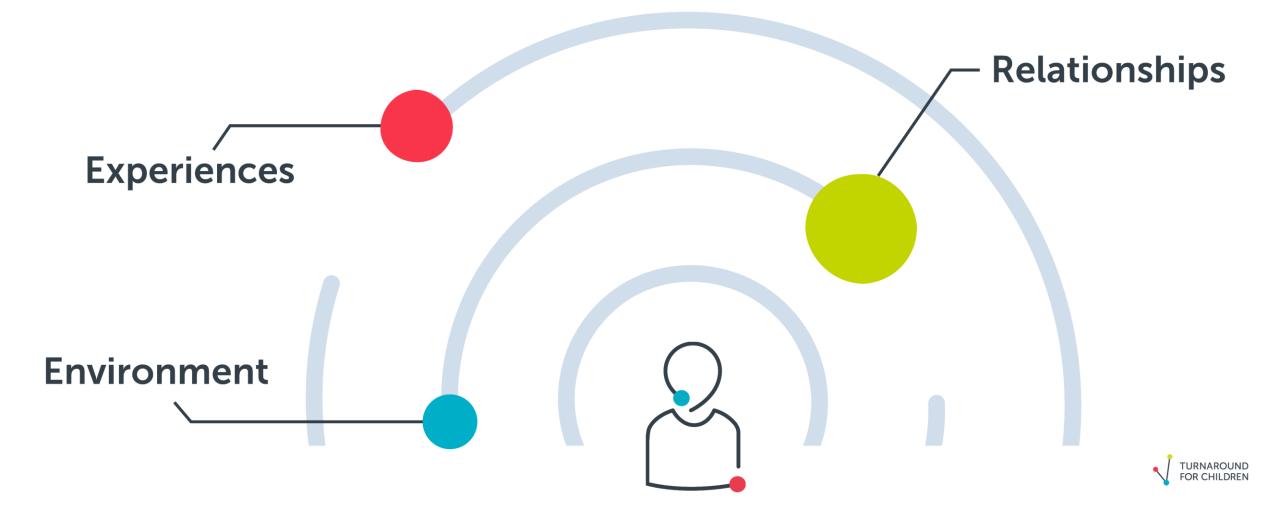




By studying illness, we learn about health.



CONTEXT

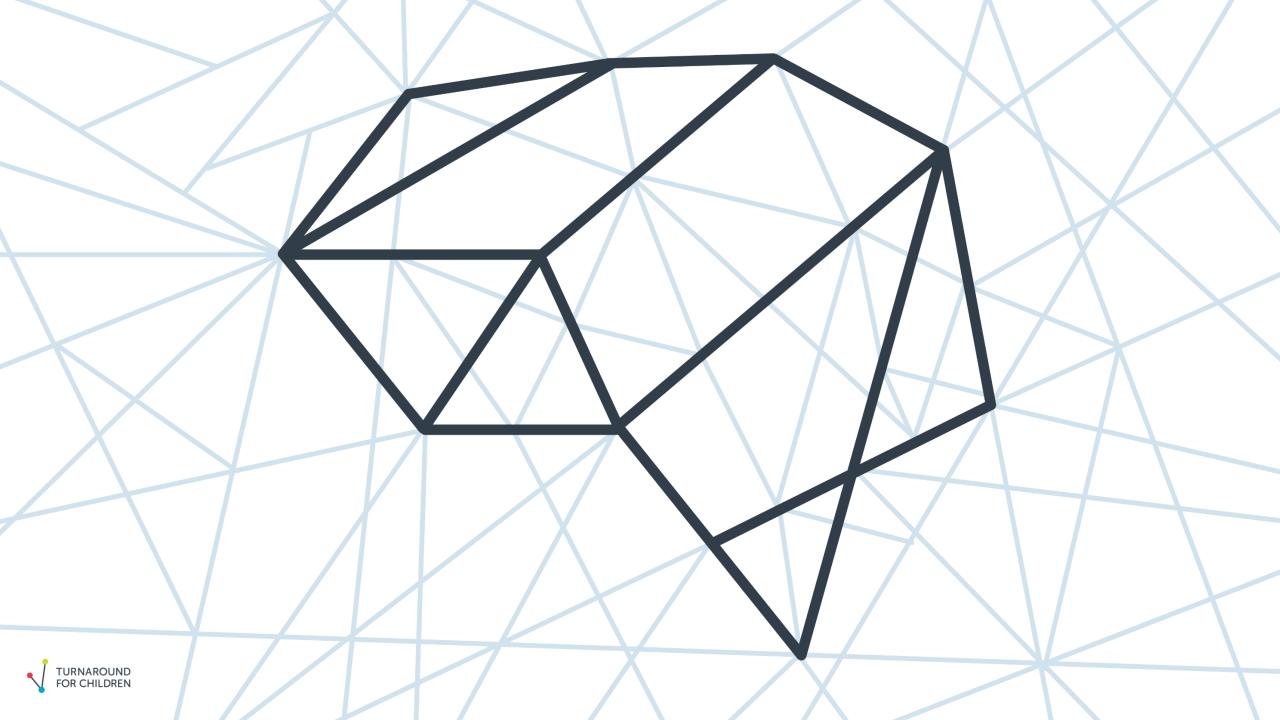


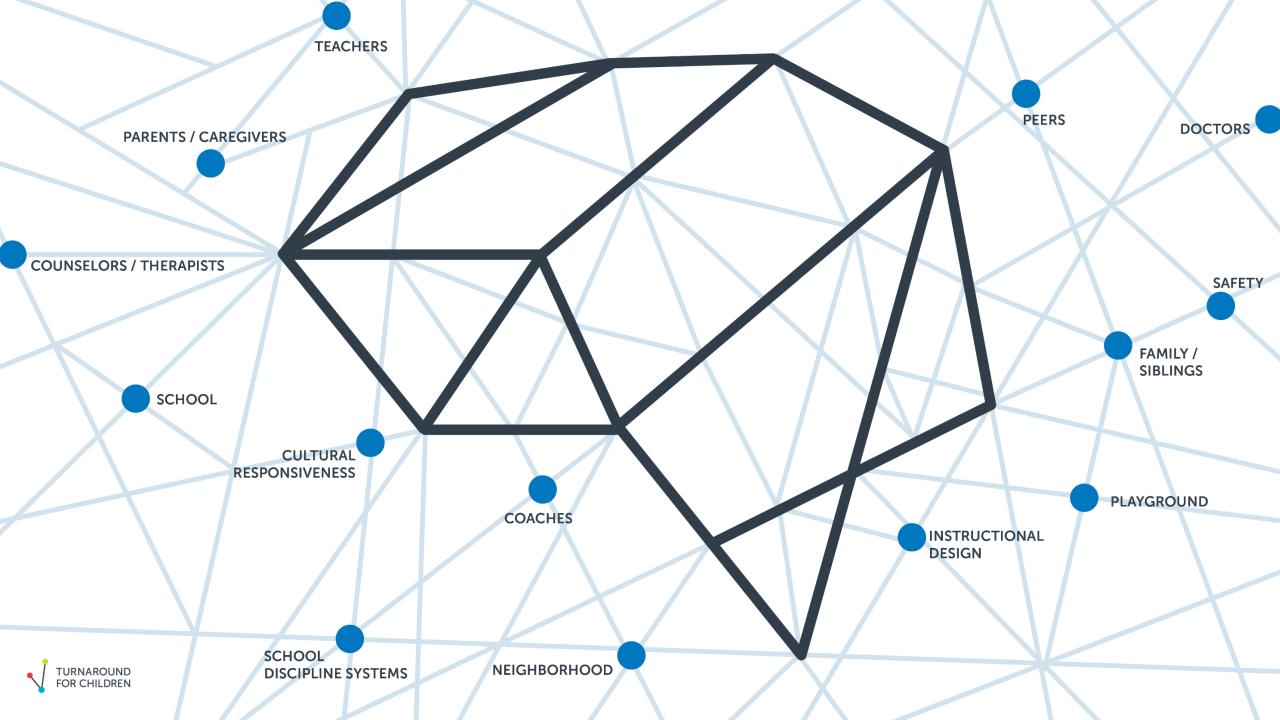


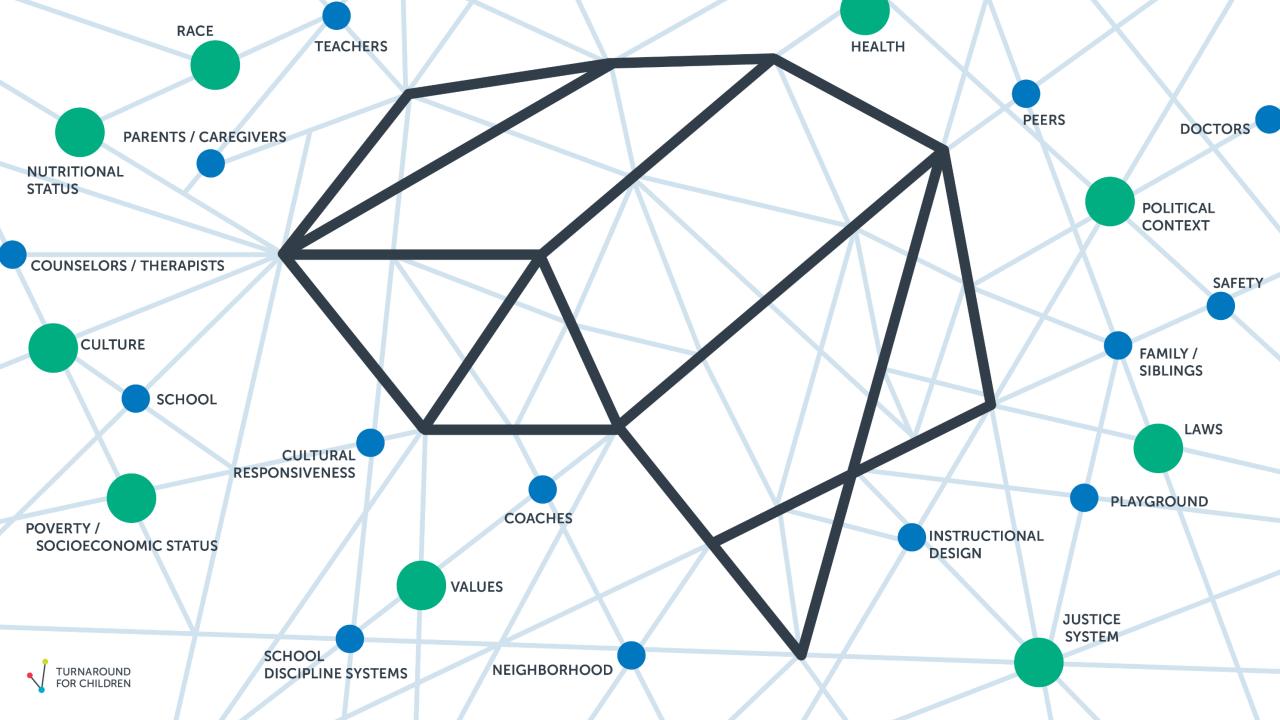
Context drives our biology and the expression of our genes.

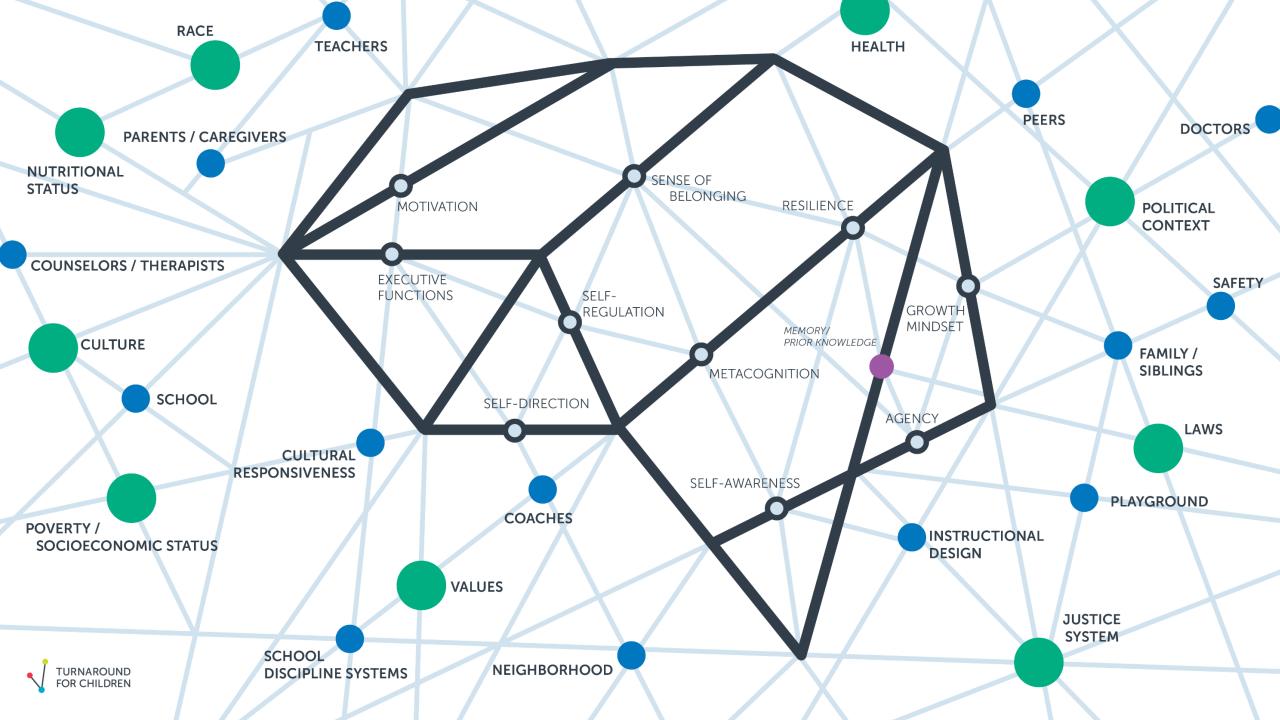


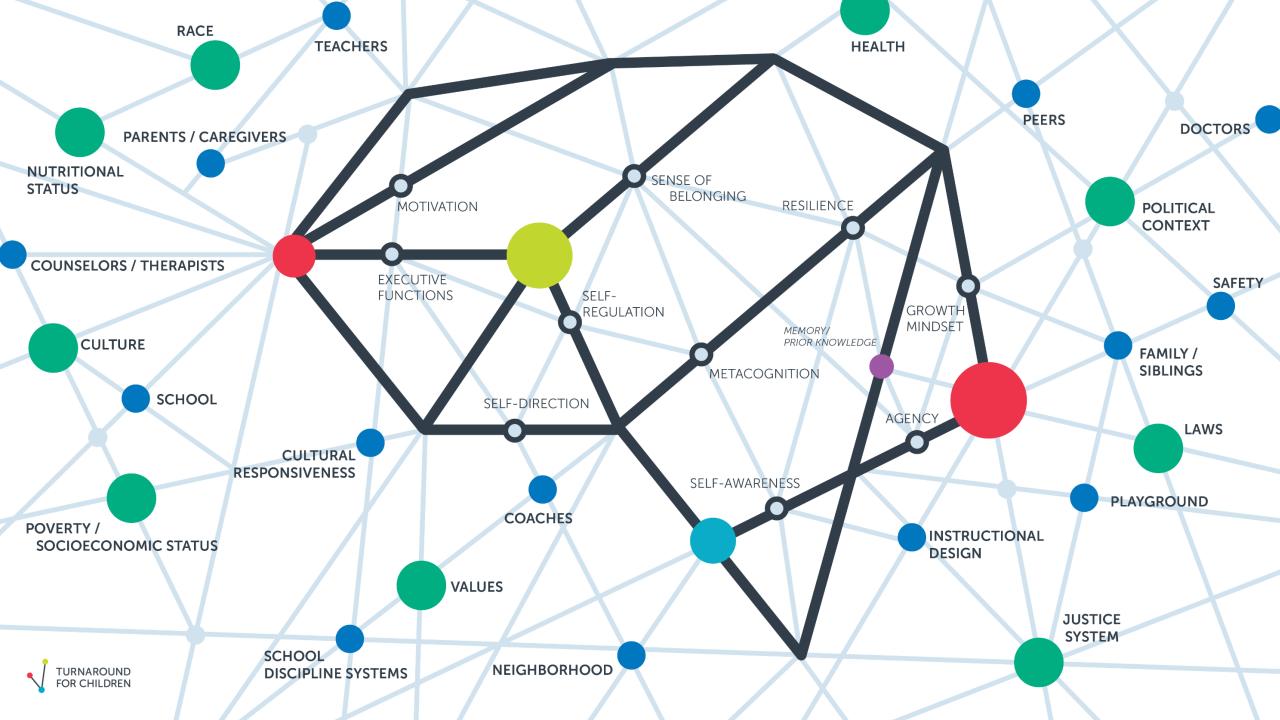


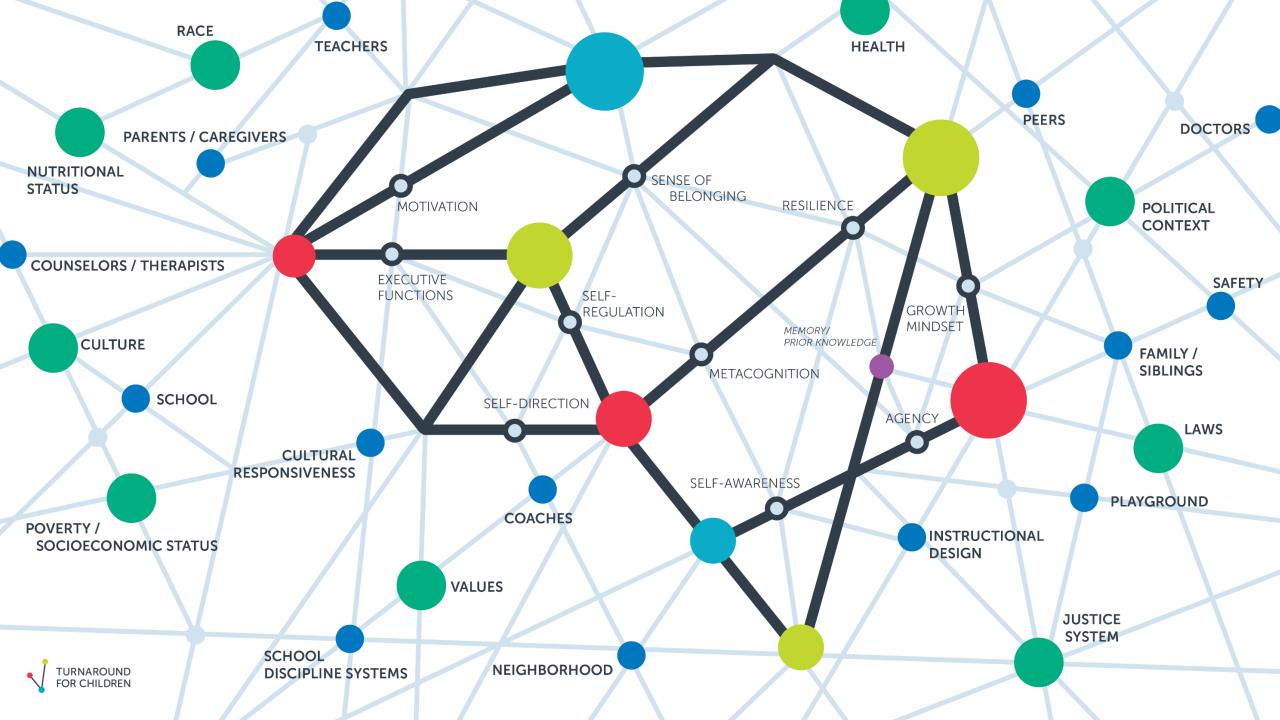


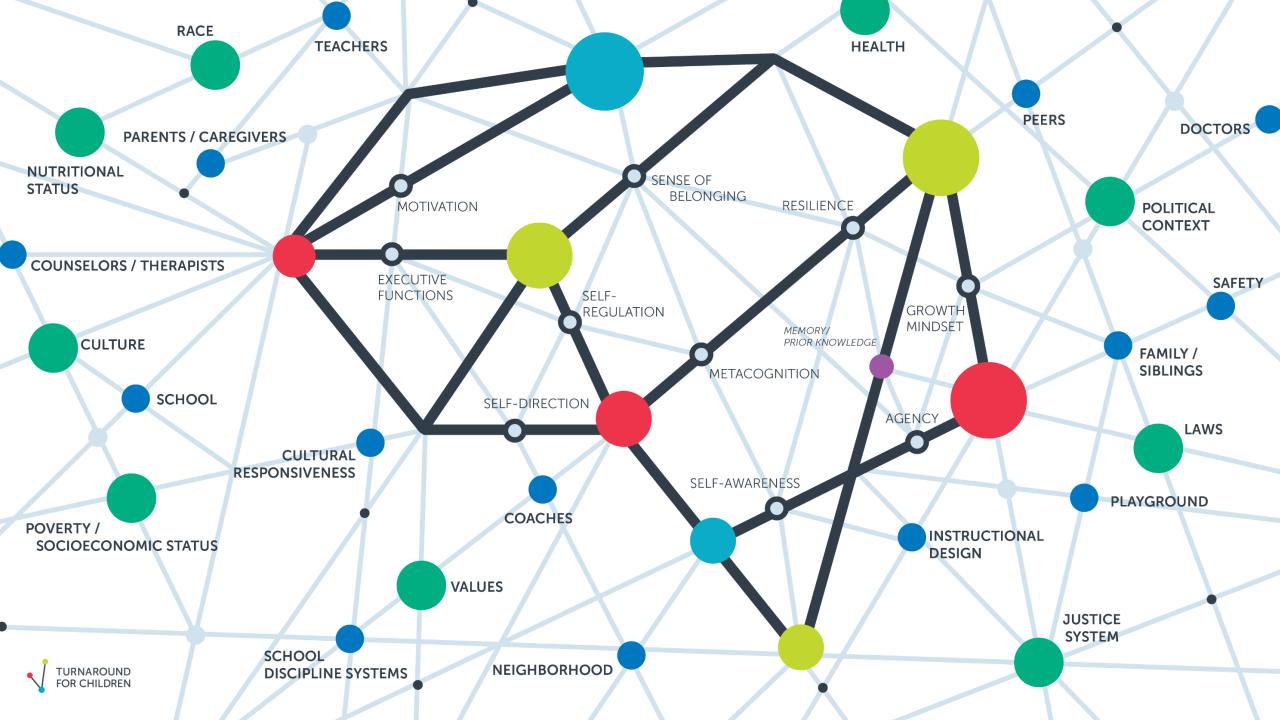




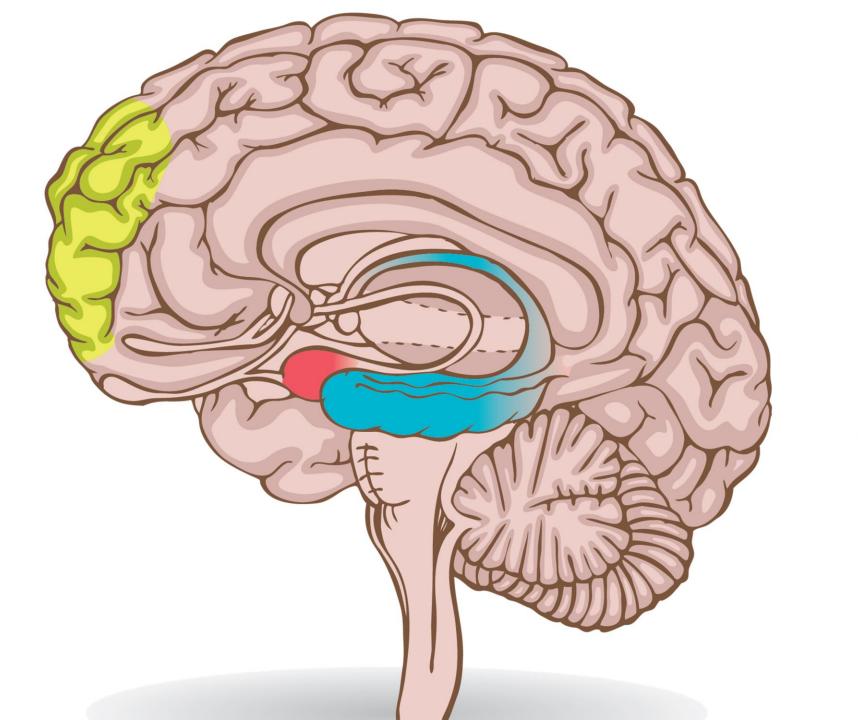












HOW CONTEXT GETS INSIDE THE BRAIN







John N











THINGS TO REMEMBER ABOUT BRAIN DEVELOPMENT



Experience-Dependent Growth

Context



PREFRONTAL
CORTEX

• Attention
• Concentration
• Focus

AMYGDALA

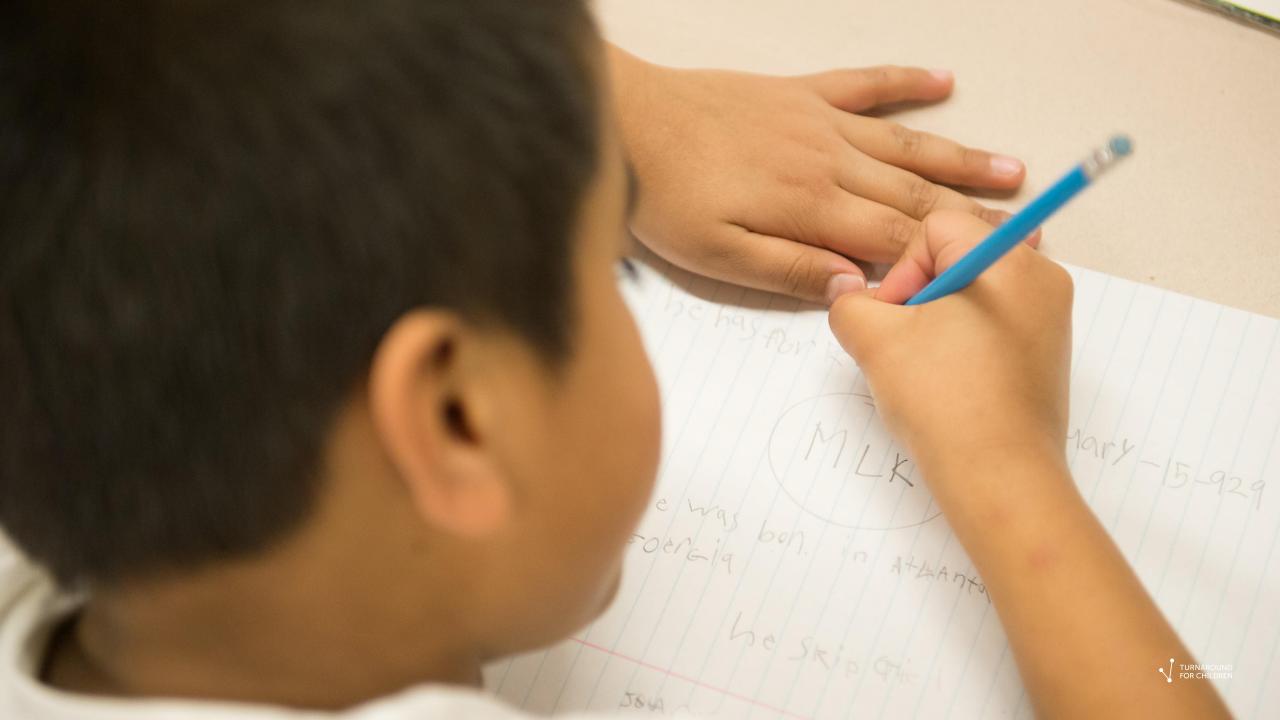
Emotional Regulation

Reactivity











ACES ADVERSE CHILDHOOD EXPERIENCES

- Physical abuse
- Emotional abuse
- Sexual abuse

- Physical neglect
- Emotional neglect
- Mental illness in the home
- Domestic violence
- Incarcerated relative
- Substance abuse in the home
- Loss of a parent (death, divorce)

- Racism
- Witnessing violence
- Lack of neighborhood safety and trust
- Bullying
- Foster care





Adversity doesn't just happen to children, it happens inside their brains and bodies.





OXYTOCIN



CORTISOL







THE MARSHMALLOW TEST





THE MARSHMALLOW TEST









THE MARSHMALLOW TEST









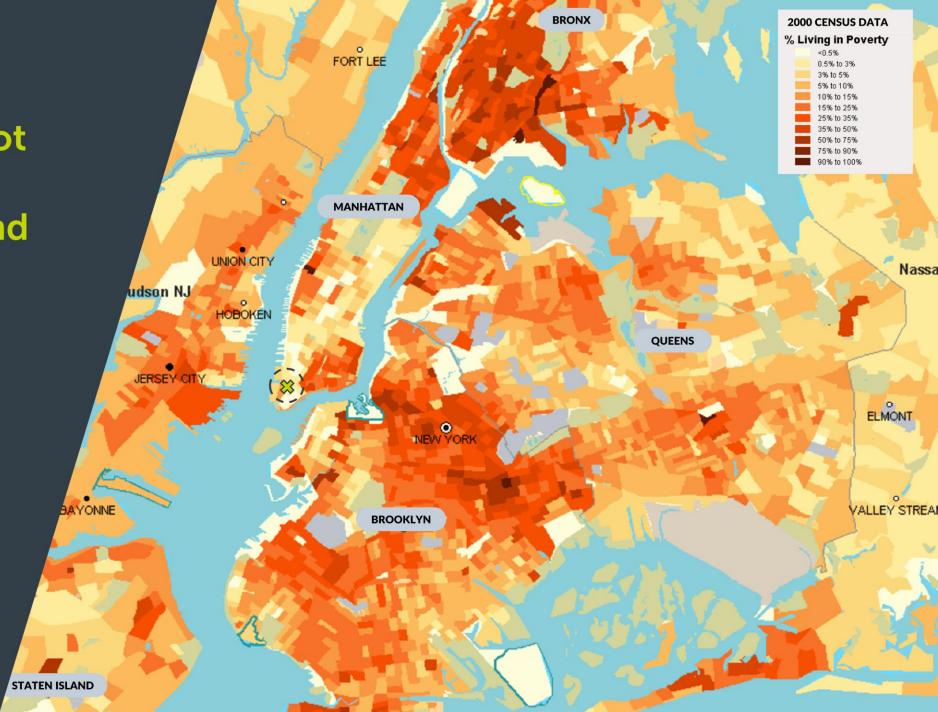








The greatest concentration of symptoms was not at Ground Zero, but in children and schools in the communities of deepest poverty.

































Students unready for learning



Negative school culture

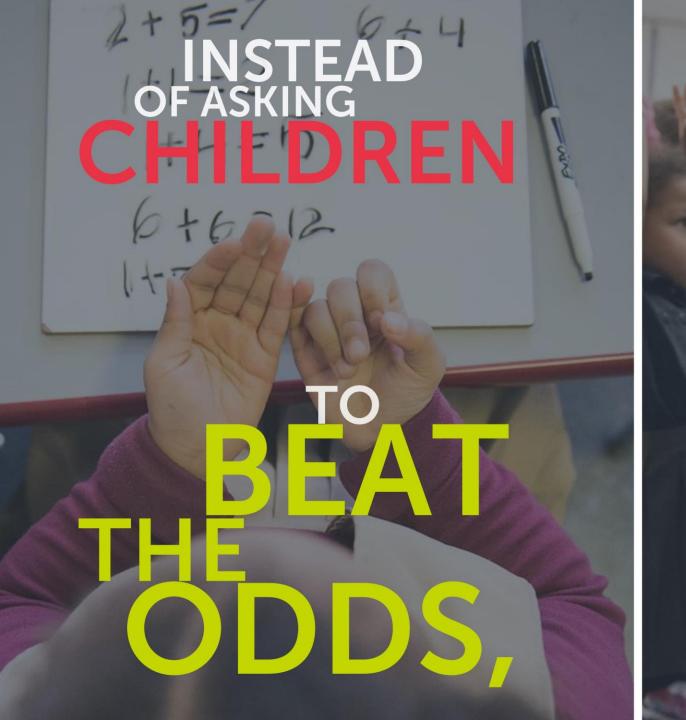


Academic underperformance



Teachers feel unprepared for challenges







SoLD: THE SCIENCE OF LEARNING AND DEVELOPMENT INITIATIVE















SoLD: THE SCIENCE OF LEARNING AND DEVELOPMENT INITIATIVE























SoLD: THE SCIENCE OF LEARNING AND DEVELOPMENT INITIATIVE





APPLIED DEVELOPMENTAL SCIENCE

2018

MALLEABILITY, PLASTICITY, AND INDIVIDUALITY: HOW CHILDREN LEARN AND DEVELOP IN CONTEXT

DRIVERS OF HUMAN DEVELOPMENT:

HOW RELATIONSHIPS AND CONTEXT SHAPE LEARNING AND DEVELOPMENT

2019

IMPLICATIONS FOR EDUCATIONAL PRACTICE OF THE SCIENCE OF LEARNING AND DEVELOPMENT



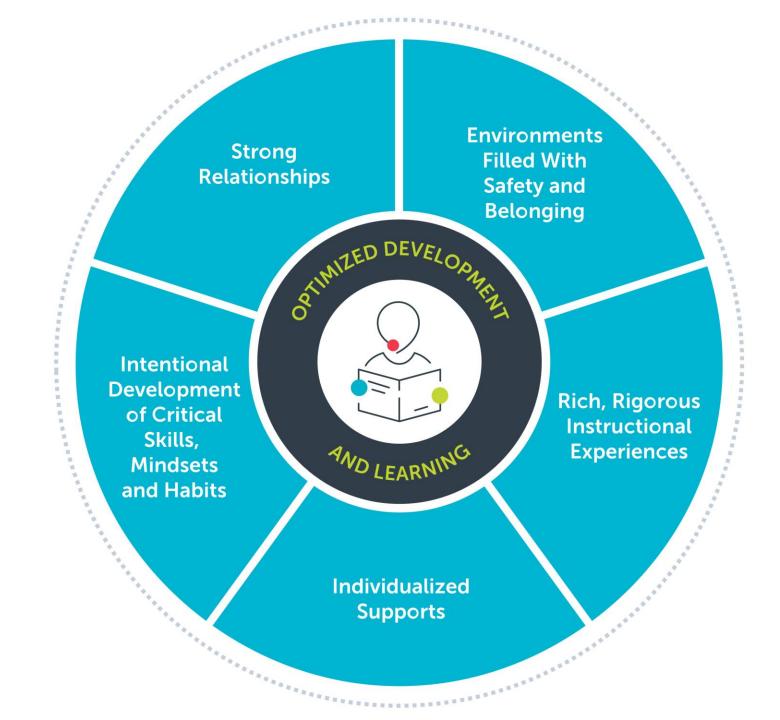
WHOLE CHILD PERSONALIZATION OF LEARNING



SoLD:

THE SCIENCE OF LEARNING AND DEVELOPMENT INITIATIVE

WHOLE CHILD PERSONALIZATION OF LEARNING







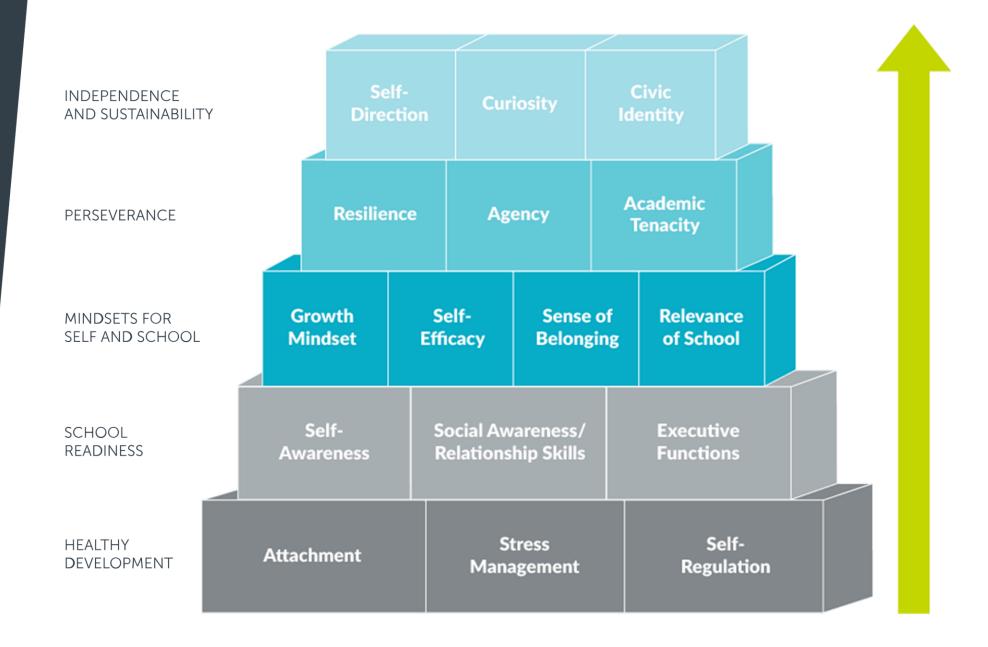


WHOLE CHILD PERSONALIZATION REQUIRES INTEGRATION OF TOOLS AND PLATFORMS

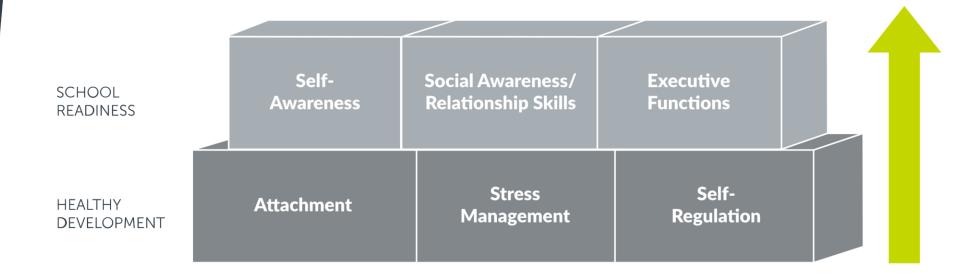




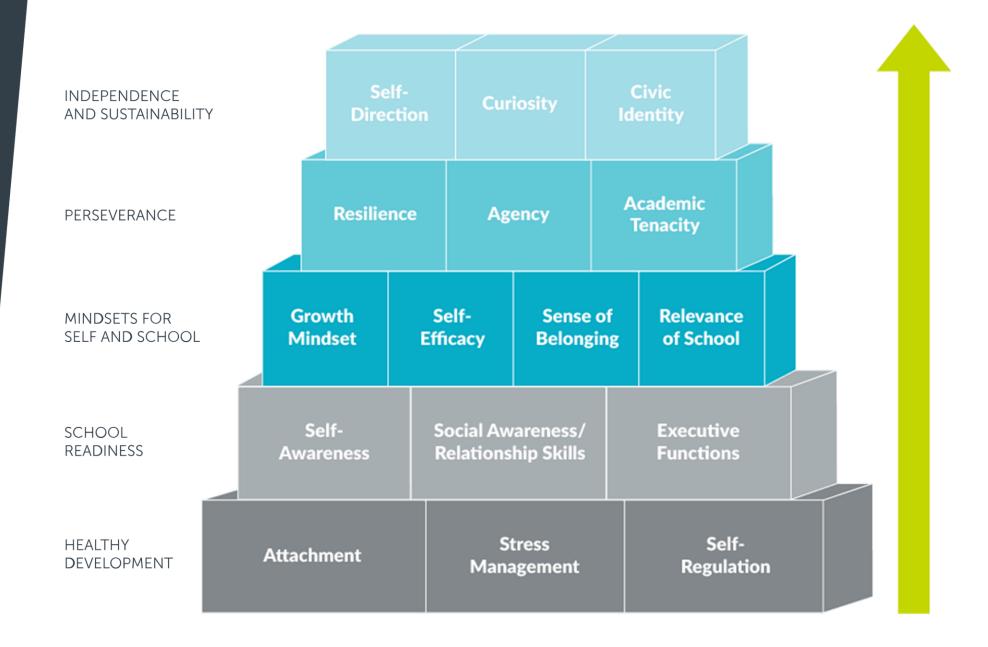




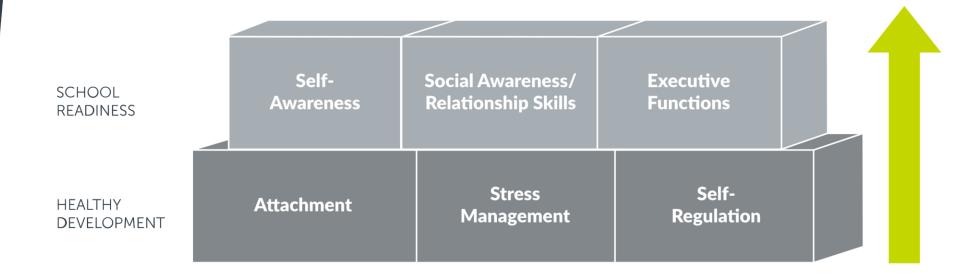


















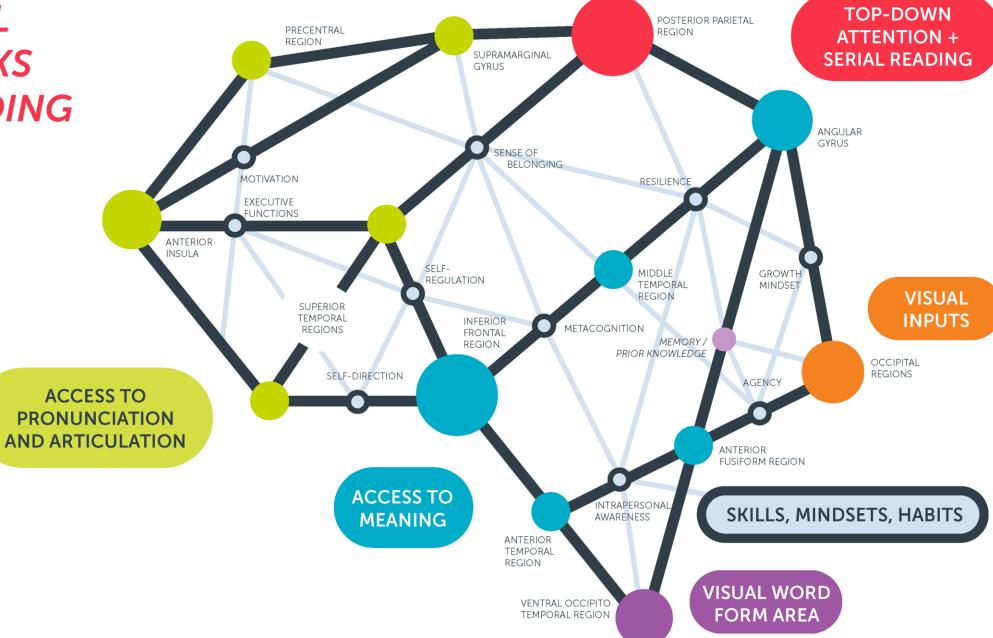




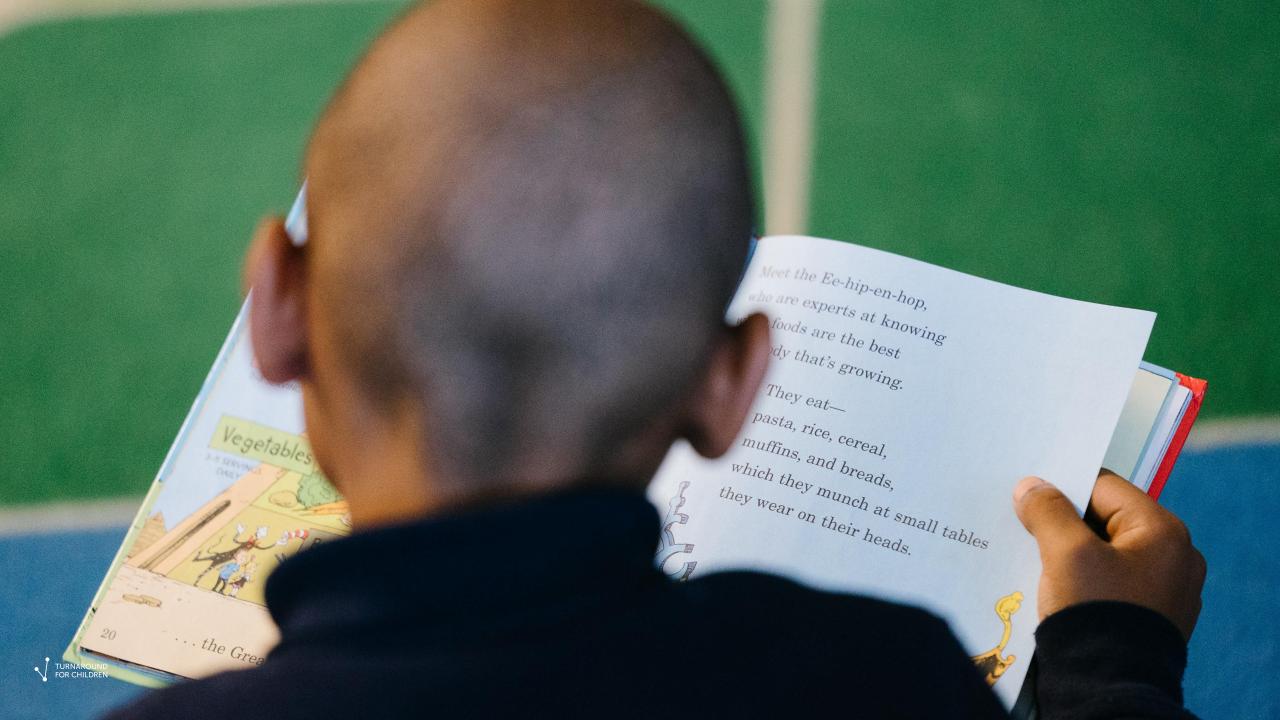


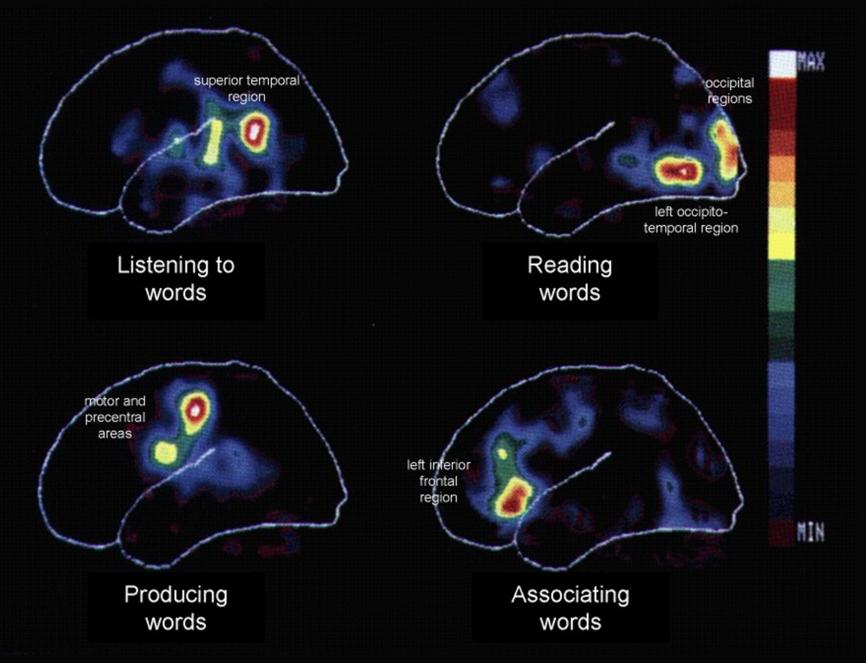


CORTICAL NETWORKS FOR READING











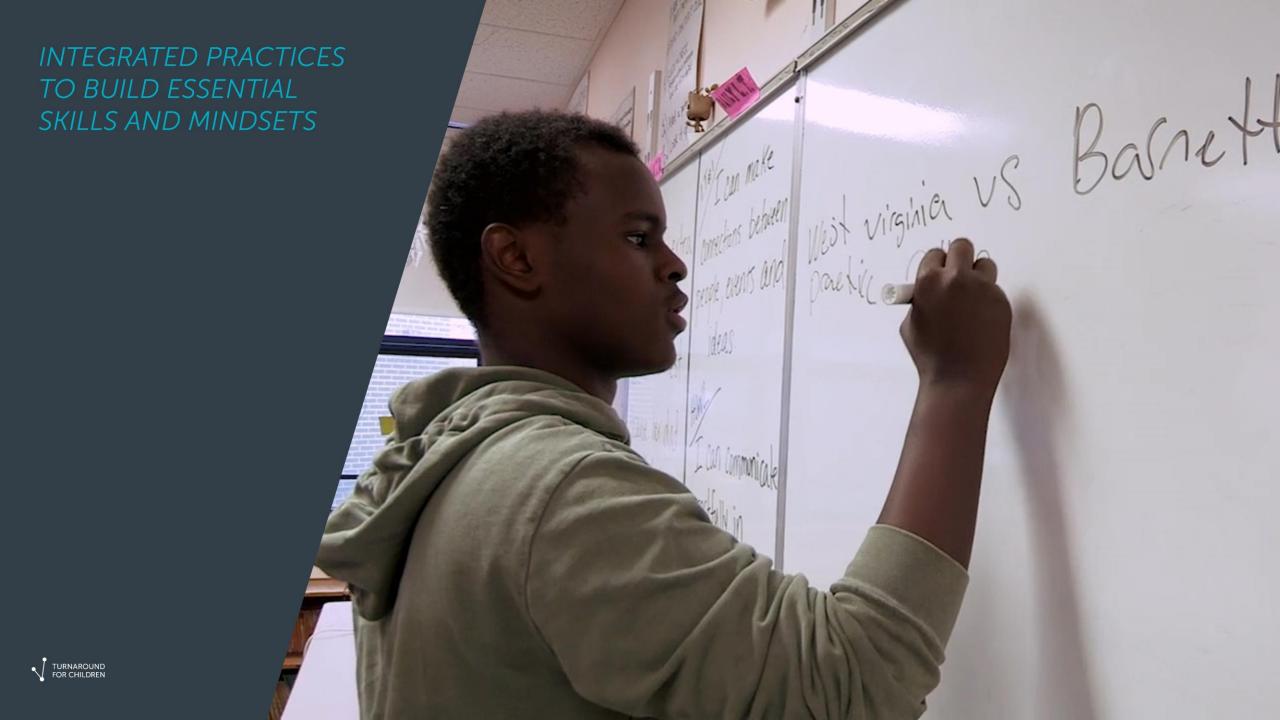
edutopia

HOW LEARNING HAPPENS

edutopia.org/how-learning-happens







nnections between ople, events and ideas.

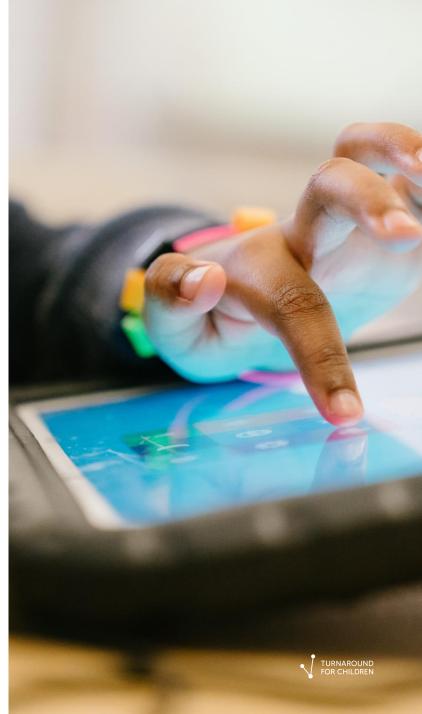
can communicate ectfully in ss discussion.

Azwest virginier VS Barnette Opraetic Collage BRALEKS Al Dry Ice Observation-A4 Book club. BISS voabquiz. The D French verblinks Ad Sparish Past terse verbs



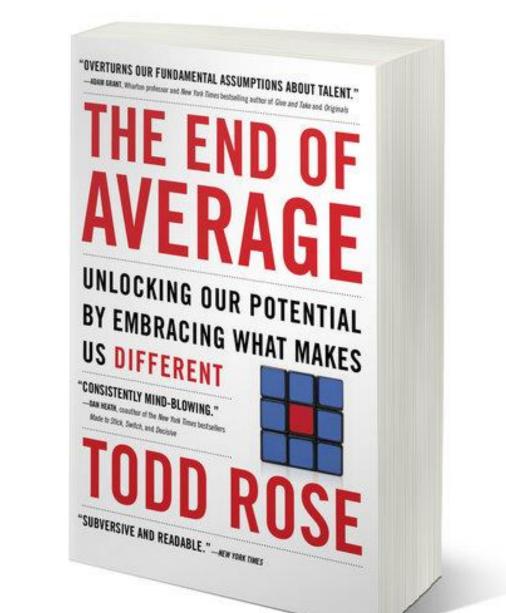














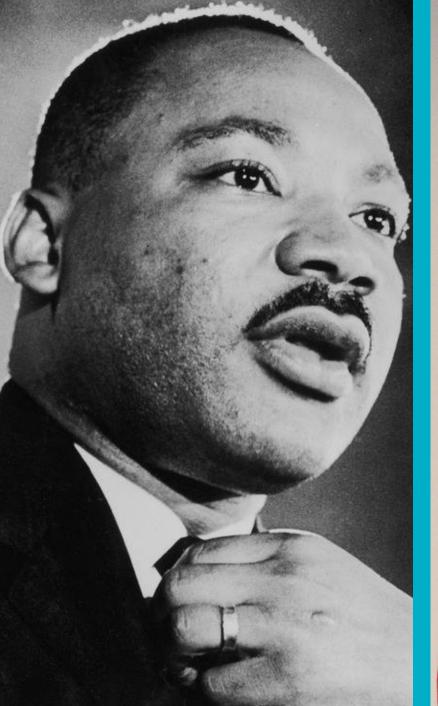


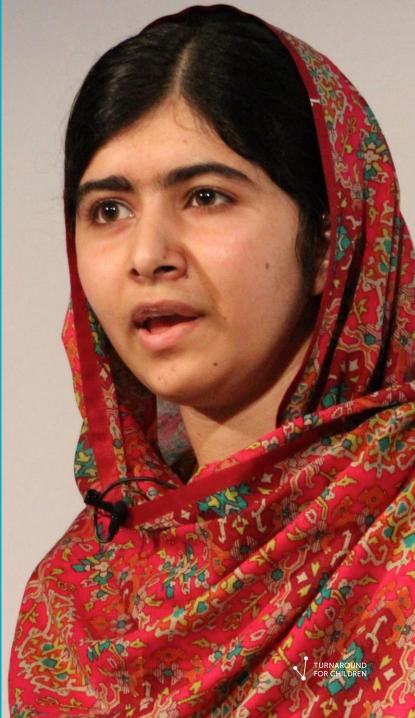


Skills exist in a potential state in all children.

























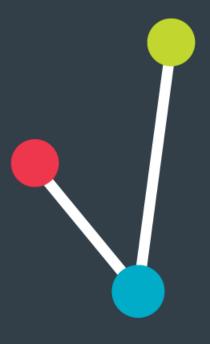












TURNAROUND FOR CHILDREN

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