

PAMELA CANTOR, M.D.

FOUNDER and SENIOR SCIENCE ADVISOR

KATIE BRACKENRIDGE

PARTNERSHIP DIRECTOR



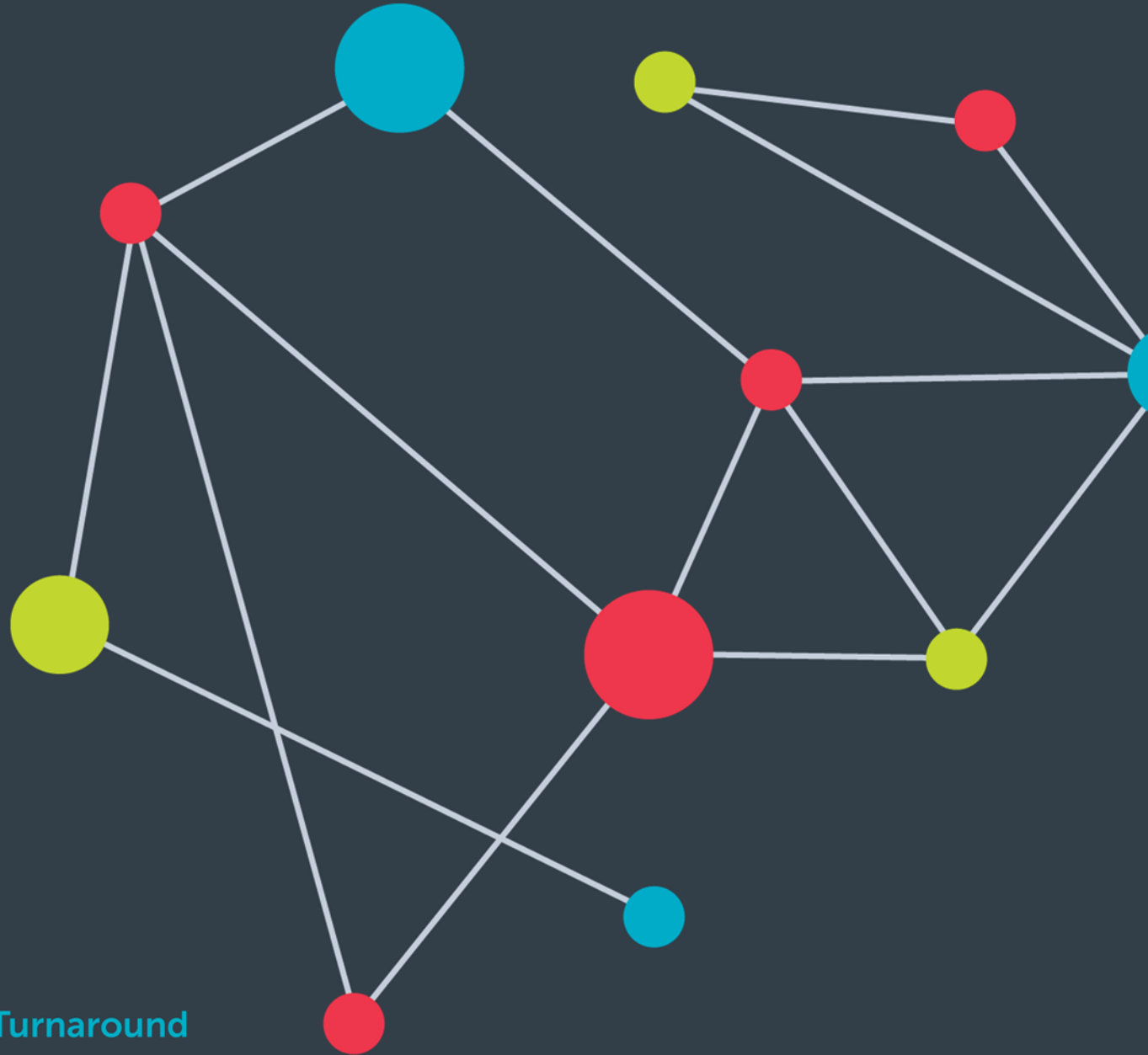
TURNAROUND
FOR CHILDREN

turnaroundusa.org



[@DrPamelaCantor](https://twitter.com/DrPamelaCantor)

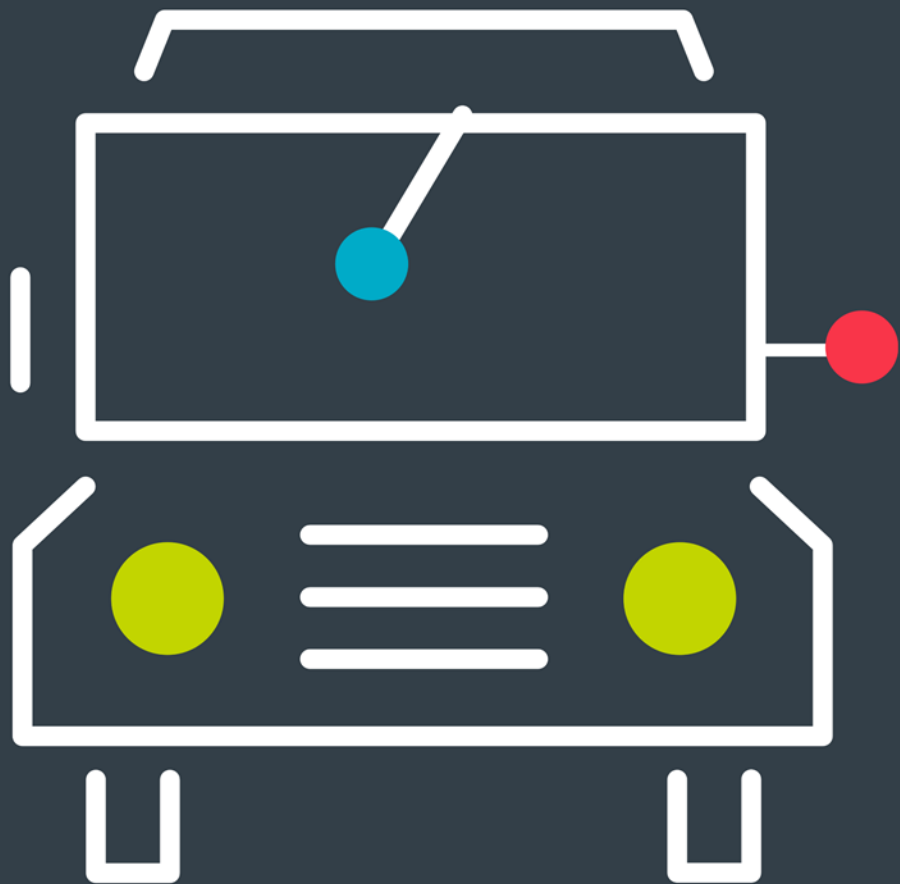
[@Turnaround](https://twitter.com/Turnaround)





There are
20,000 genes
in the
human genome —

fewer than 10%
get expressed.



Context is the
primary driver
of who we
become.



PREFRONTAL CORTEX

- Attention
- Concentration
- Focus

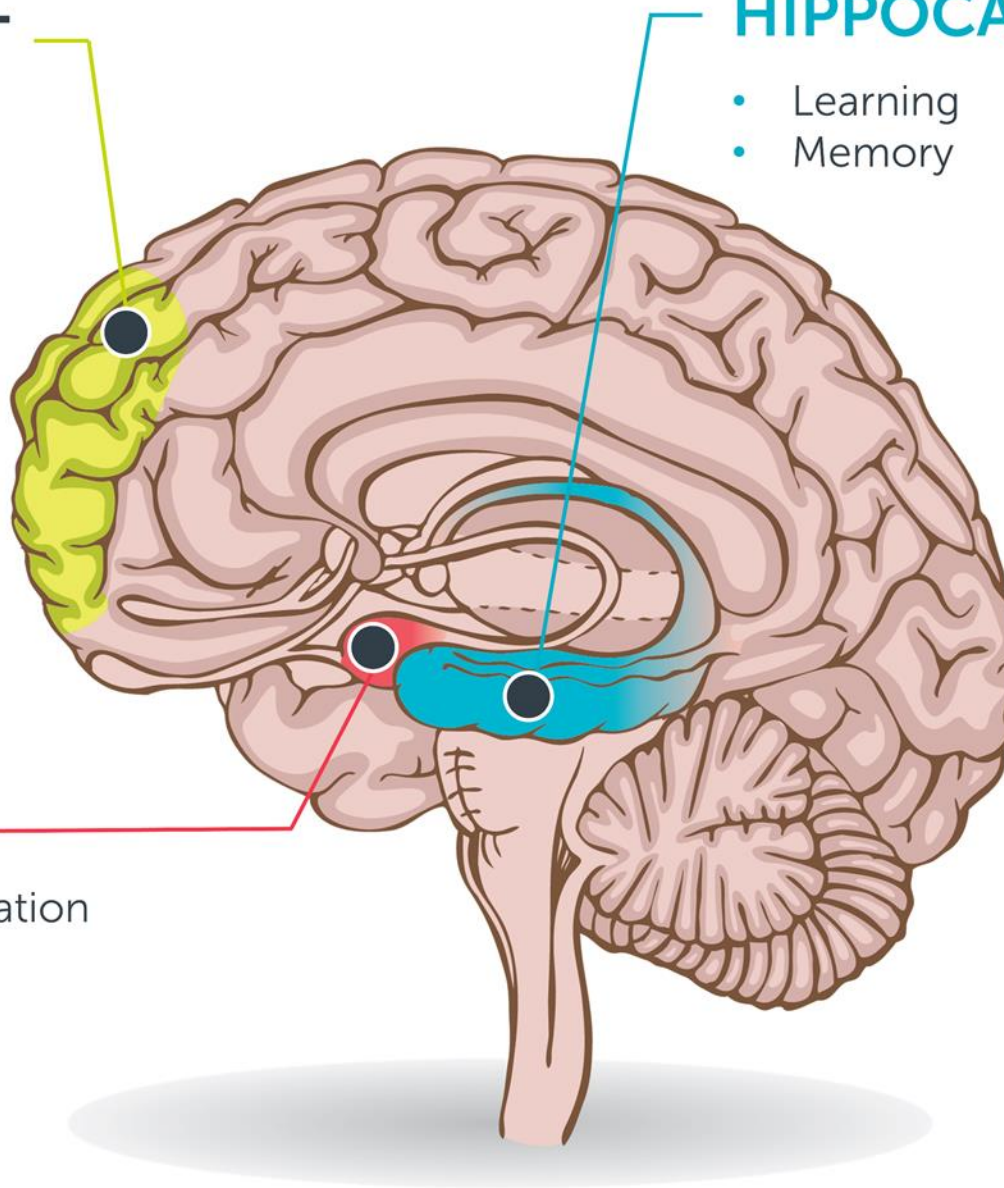
HIPPOCAMPUS

- Learning
- Memory

AMYGDALA

- Emotional Regulation
- Reactivity

LIMBIC SYSTEM





CORTISOL





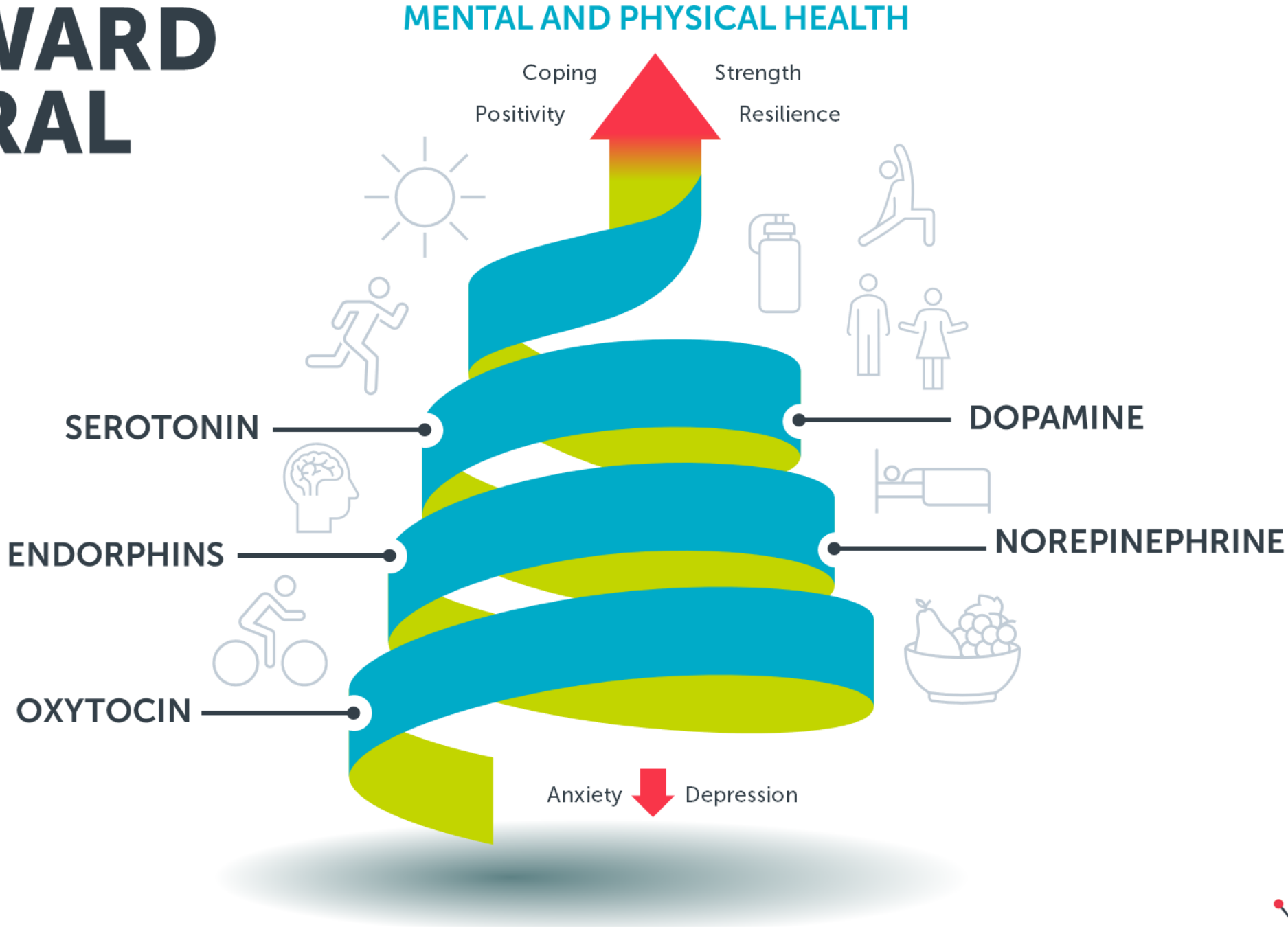
OXYTOCIN



CORTISOL



THE UPWARD SPIRAL



3

THINGS TO REMEMBER ABOUT BRAIN DEVELOPMENT

Malleability

**Experience-
Dependent
Growth**

Context



There is no
such thing as a
developing
child
independent
of context.

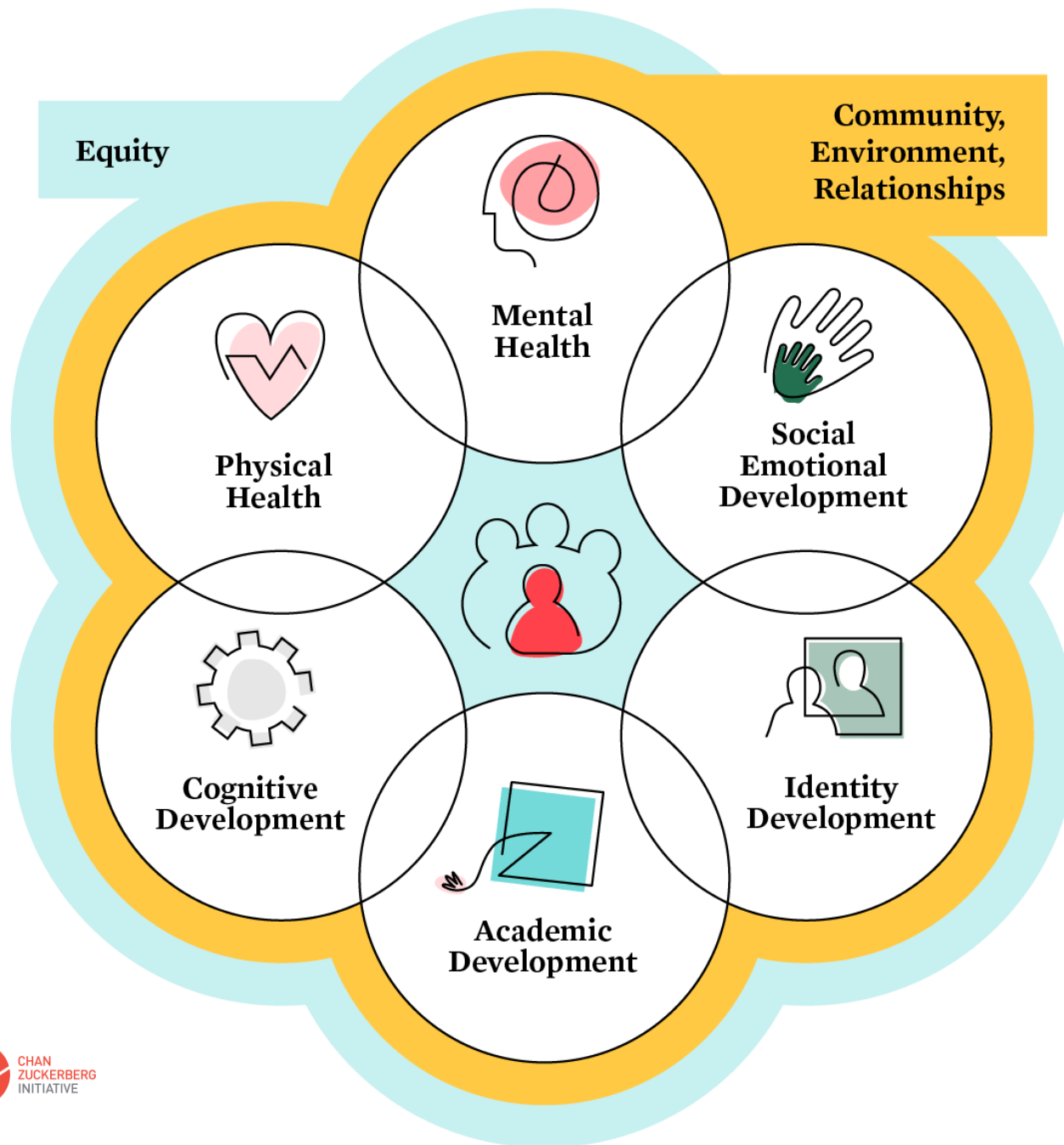


Skills and
talents exist in a
potential state
in all children.

FIVE NON-NEGOTIABLES FOR WHOLE-CHILD DESIGN



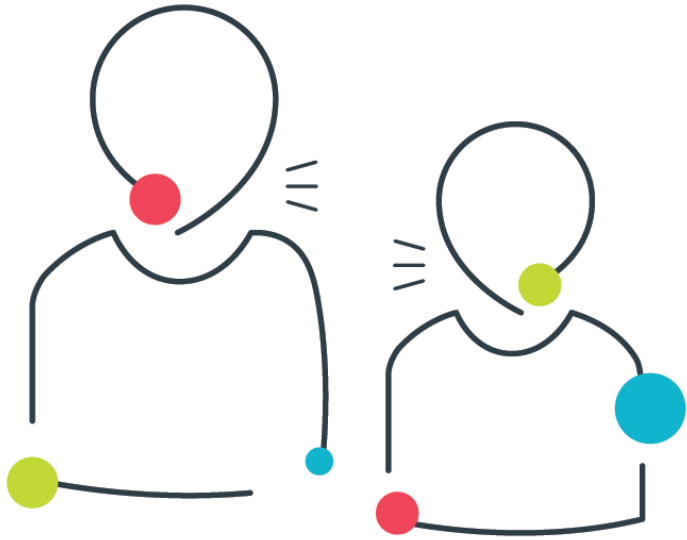
Derived from SoLD Practice Principles:
Darling-Hammond, L., Flook, L., Cook-Harvey, C., Barron, B., and Osher, D. (2019).
Implications for educational practice of the
science of learning and development.
Applied Developmental Science, 2.





The path to
learning
is a calm
brain.

R ELATIONSHIPS



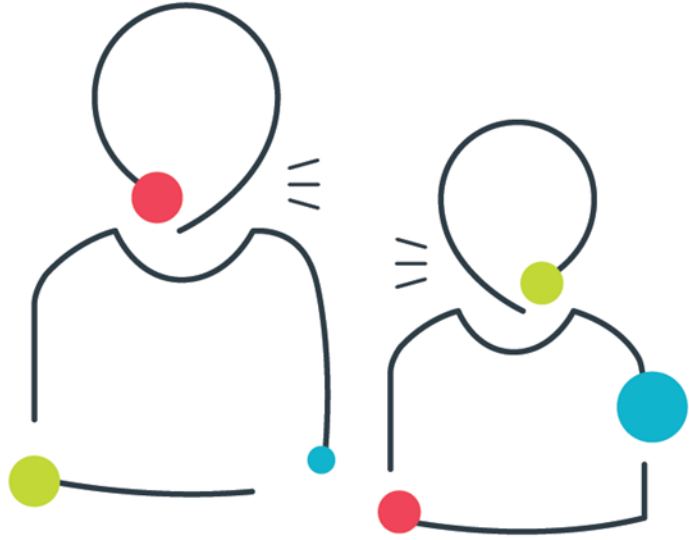
R OUTINES



R ESILIENCE



RELATIONSHIPS



Relationships are the “active ingredient” in any learning environment.

BLASTS OF OXYTOCIN

- Ask how they're doing
- Listen to ideas and opinions
- Follow-up

ROUTINES



**Build in consistent routines
in *all* learning settings:**

- Schools
- Classrooms
- Afterschool Programs
- Community Centers
- Homes

RESILIENCE

Build resilience like a muscle.

EXAMPLES

- Recognize and build on strengths
- Understand and manage emotions through co-regulation





Context
shapes the
expression of
our genetic
potential.



TURNAROUND FOR CHILDREN

turnaroundusa.org



RESOURCES

turnaroundusa.org/acsa-resources