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# CONNEGTION 



# The science of learning and development paints an optimistic picture about what is possible. 

## There are

## 20,000 genes

 in thehuman genome -

## CONTEXT

## Experiences

Environment


# There is no separation of nature and nurture, biology and environment, or brain and behavioronly a collaboration between them. 

## THINGS TO REMEMBER ABOUT BRAIN DEVELOPMENT



MALLEABILITY


EXPERIENCEDEPENDENT GROWTH


CONTEXT

## PREFRONTAL CORTEX

- Attention
- Concentration
- Focus


## AMYGDALA



## CORTISOL OXYTOQN

## The most powerful example of positive context is the human relationship.




## TRAUMA IS NOT DESTINY



## Relationships are the

 electrical source for the growth of the brain.

## BLOOM'S 2 SIGMA STUDY



## $8^{\text {TH }}$ GRADERS BELOW BASIC PROFICIENCY IN MATH:



## $8^{\text {TH }}$ GRADERS PROFICIENT IN MATH:



## We can create

 learning environments that recognize children as whole people.
## Essential Guiding Principles for Equitable Whole-Child Design



Sources:
Leaming Policy institute \& Tumaround for Children. (2021). Design principles for schaools: Putting the science of learming and developmentintintoaction
Forum for Youth Investment (with Leaming Policy Institute community-basedsettings Putting the science ofleaming and


LEARNIN POLICY
INSTITUTE

$\begin{aligned} & \text { Science of } \\ & \text { Learning } \& \\ & \text { Development }\end{aligned}$
din

## designprinciples.org




## motivation

## belief

purpose
focus


Academic Skills

## Identity

Agency FOR CHILDREN

## UNLEASH THE POTENTIAL IN EACH AND EVERY YOUNG PERSON

## $\sqrt{\text { TURNAROUND }} \begin{aligned} & \text { FOR CHILDREN }\end{aligned}$

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