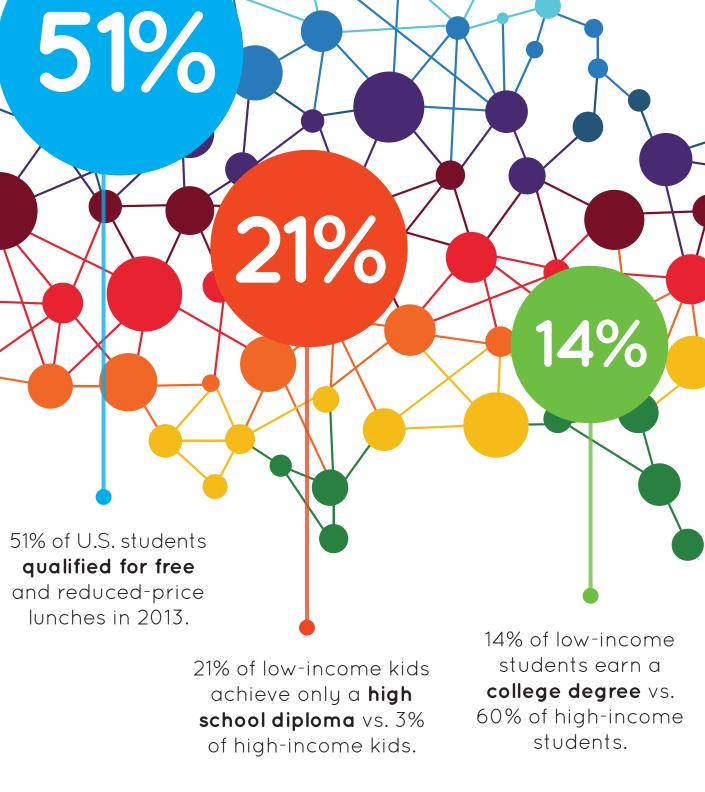


## Is Harder When You're Poor The Truth About How Poverty

Sets Kids Back at School & What We Can Do to Help

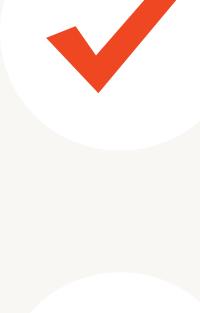
# It's a Big Challenge



Poverty & the Brain

### A child's family situation and socioeconomic status can cause real brain differences. **BABIES**

born into poverty are more likely to be exposed to poor nutrition, environmental toxins and violence. These outside stressors can affect brain



#### increases in the surface area of numerous brain regions,

**INCREASES** 

including those used for language and executive function. **VOCABULARY** By age 4, children in poverty hear 13 million words spoken

in the home. Those in

working-class families

hear 26 million and kids

in a professional family

**ONGOING TRAUMA** 

the development of neural

connections, which regulate

emotion and impulse control.

hear 45 million words.

development and learning.

in parental education and

family income are linked to



#### such as food insecurity and unstable housing can hurt

**IMPAIRED FLEXIBILITY** Being impoverished affects the development of the prefrontal and limbic systems of the brain,



#### gears, multitask and change strategies based on feedback.

LESS GRAY MATTER

Low-income kids showed 7%

to 10% less gray matter in

three key areas of the brain

used for academics: the frontal

affecting the ability to switch

lobe (executive function), the temporal lobe (memory and language), and the hippocampus (long-term memory). **DYSLEXIC** 

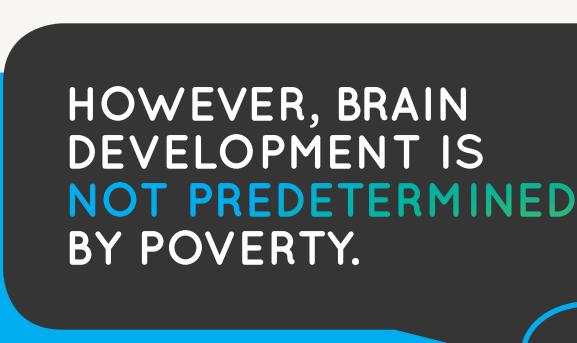
Research shows that the brain

structures of low-income children

reflect many of the same patterns

**SIMILARITIES** 

as those with dyslexia.



caring adults.

## HOWEVER, BRAIN

**TEACHERS** can play a huge role by being consistent.

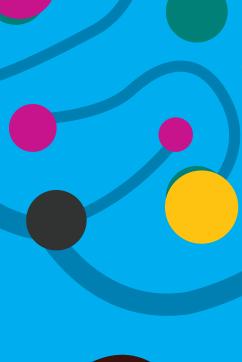
CONSISTENT

PRACTICE and

exposure to

vocabulary, critical thinking, and problem

solving can help to nurture positive brain development.



Areas of the

brain affected by trauma remain

**PLASTIC** 

through

adulthood.

## BUILD

**VOCABULARY** 

USE

by reading and

8 Things Teachers

Can Do

talking about books, creating word walls, fostering discussion, and offering practice through role-play and games.

**MEMORY EXERCISES** 

to help foster neural

connections and

encourage

executive

functions.

## frequent feedback so kids can see progress and build confidence. RESEARCH shows that consistent exposure to **PHONEMES** can help to nurture the necessary pathways to literacy in the brain. BE FLEXIBLE When students have

**PROVIDE** 

Break tasks into

smaller steps

and provide

ENCOURAGEMENT.

## trouble, look beyond

the behavior and remember the possible trauma underlying their action. ACCOMMODATE, if necessary, to get them to accomplish the task.

students an activity to

try out before diving

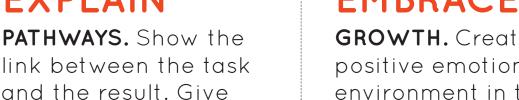
into the exercise or

show them

**EXPLAIN** 

ALLOW

**CHOICE**. Kids in poverty don't often feel a sense of control in their own lives. In the classroom, give options that let them build skills, set goals and increase their sense of agency.



**EMBRACE** GROWTH. Create a positive emotional environment in the classroom and explain how all brains are capable of learning under the right conditions. Exude optimism, enthusiasm for learning and hope for their futures.

another student who has completed it.



**VE** are **TEACHERS** 

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