

A substantial body of research clearly demonstrates that school breakfast, and in particular the policies proposed in **AB 1240**, significantly improve academic performance, and physical and emotional health.

After reviewing more than 100 studies and evaluations of the School Breakfast Program, researchers have found that serving breakfast significantly improves students' cognitive abilities, enabling them to be more alert, pay better attention and perform better on reading, math and other standardized test scores. Children who eat breakfast also are sick less often, have fewer problems associated with hunger, such as dizziness, lethargy and stomachaches, and do significantly better than their non-breakfasted peers in terms of cooperation, discipline and interpersonal behaviors.¹

In the short term, breakfast consumption improves concentration, learning skills and working memory. In the long term, school breakfast programs can improve school attendance and dropout rates. Breakfast programs are most effective when schools are given standards for participation and execution.²

IMPROVED	DECREASED
Cognitive Function	Risk for Obesity and Diabetes
Academic Achievement	Aggressive Behavior
School Attendance	Delinquency
Diet and Physical Health	Suspensions
Emotional Health	Tardiness





School Breakfast Improves Academic Performance

- Sufficient blood glucose levels, which accompany
 a nutritious breakfast, significantly improve young
 children's memory function, including the ability to
 recall a list of words, memorize stories and repeat facts
 while distracted.³ On the other hand, fasting overnight
 has adverse effects on cognition the next morning,
 particularly the speed of information retrieval.⁴
- According to experimental studies, students who eat breakfast report feeling more motivated at school and have improved cognitive performance. They also have better visual perception and spatial memory ability. Results on short-term memory tests are higher for students who eat a nutritious breakfast, such as oatmeal, than those who do not eat breakfast.⁵
- In a California Department of Education survey of students in grades 7, 9 and 11, schools with a higher percentage of pupils eating breakfast had significantly higher Academic Performance Index (API) scores.⁶
- An analysis of the USDA's School Breakfast Program found that it significantly improves school performance and reduces absenteeism and tardiness, all while improving children's diets overall.⁷
- The School Breakfast Program has a positive effect on children's academic performance with the clearest effects being for mathematics among undernourished children. Some evidence suggests that eating a daily breakfast with a wide variety of foods, as is served at school, contributes to academic performance. School breakfast also has a positive impact on on-task behavior and focus in the classroom.⁸
- Participation in the School Breakfast Program
 is associated with significant improvements in
 standardized test scores among low-income elementary
 school children.⁹
- Breakfast consumption has a positive impact on student literacy, independent of income level or parental education.¹⁰

Skipping breakfast is highly and disproportionately prevalent among school-aged minority youth and has a negative impact on academic achievement by adversely affecting cognition and attendance. Due to problems with the implementation of the School Breakfast Program today, the majority of American youth do not have breakfast, with even lower rates of participation in minority communities.¹¹

School Breakfast Improves Attendance, Focus and Classroom Behavior

- Children from families that report multiple experiences
 of food insecurity and hunger are more likely to show
 behavioral, emotional and academic problems on a
 standardized measure of psychosocial dysfunction
 than children from the same low-income communities
 that are not food insufficient. Hungry children are also
 more likely to have repeated a grade, received special
 education services or mental health counseling, ¹² and
 to be delinquent. ¹³
- School breakfast programs have been shown to improve attendance and reduce absenteeism, which translates to improved academic performance due to greater classroom participation. Children who usually go hungry at home benefit the most academically when they receive breakfast at school.¹⁴ On average, school breakfast reduces absenteeism by 1.5 days per child and leads to a 17.5 percent boost in math scores on standardized tests.¹⁵
- Food-insufficient children are more likely to have difficulty getting along with their peers. Foodinsufficient teenagers also have an increased likelihood of being suspended from school.¹⁶
- Children experiencing hunger are more likely to lack focus and be hyperactive, distracting other students from learning experiences in the classroom. School breakfast participation positively impacts children's mental health, including reductions in behavioral problems, anxiety and depression.¹⁷





- Children who are at nutritional risk have poorer attendance, punctuality and grades at school, more behavior problems, and are less likely to eat breakfast at school than children who are not at risk. Students who enter a new school breakfast program have been shown to have significant improvements in attendance, math grades and behavior.¹⁸
- The positive impact of breakfast on nutritional status can decrease rates of illness at school, consequently improving school attendance. ¹⁹ After the implementation of the School Breakfast Program, schools experience significant improvements in attendance. ²⁰ Reduced absenteeism has extraordinary long-term benefits. Students who attend school more often are more likely to have above average grades and graduate from high school. ²¹ Students who graduate high school earn \$10,090 per year more on average ²² and have a 4 percent lower unemployment rate. ²³
- America loses an estimated \$90 billion annually when a segment of its population goes hungry, money that comes in the form of more illness, lethargy, lost productivity, and poorer educational outcomes. Of this amount, nearly \$10 billion represents the costs of poorer education-related outcomes, such as greater absenteeism and delayed graduation as a result of hunger.²⁴

School Breakfast Improves Physical Health

- Having a daily breakfast is strongly correlated with lower overweight and obesity rates among children.²⁵ In a nationally representative sample of children in grades 1-12, participation in the School Breakfast Program was significantly associated with healthier body weights and lower BMI.²⁶
- School breakfast participants are less likely to drink sugar-sweetened beverages and more likely to drink nutritious milk.²⁷ Children who eat school breakfast consume less added sugar and more fruit than children who eat a quick breakfast outside of school. Consuming less added sugar may also prevent childhood obesity and type 2 diabetes.²⁸

- Skipping breakfast is associated with decreased physical activity, which significantly contributes to overweight.²⁹
- Children who eat breakfast at school are more likely to reach the Recommended Dietary Allowances of vitamin A, vitamin D, calcium, magnesium, thiamin, riboflavin and zinc than students who don't eat school breakfast³⁰ or eat breakfast elsewhere.³¹
- Breakfast consumption can increase the feeling of fullness throughout the morning. Compared to students who do not eat breakfast, those who eat a breakfast rich in protein, like school breakfast, consume fewer calories at lunch. High-protein breakfasts may also help regulate appetite throughout the day.³² Eating breakfast frequently may help control appetite and blood sugar, which has important implications for the risk of obesity and diabetes.³³

Benefits of Breakfast After the Bell Models

- Classroom breakfast is not associated with higher daily calorie intake and has been shown to significantly improve diet quality. Many studies have shown that it can increase attendance, improve behavior and contribute to academic achievement.³⁴
- A study of the pilot classroom breakfast program in six Maryland school districts found that more than 80 percent of teachers and administrators thought that implementing breakfast in the classroom improved the school learning environment by decreasing tardiness and improving behavior. Principals also reported that disciplinary suspensions decreased at their schools.³⁵
- Another pilot program found that breakfast after the bell programs increased breakfast participation by 35 percent in just one year. Students in the program were 6 percent less likely to be chronically absent and had higher math and reading test scores. Math scores were a full ten percent higher. Overall, breakfast after the bell had the greatest impact on lower-income schools.³⁶





- Many children choose not to eat breakfast in the cafeteria because it comes with the stigma of appearing "poor." Breakfast in the classroom can prevent this stigma from getting in the way of breakfast while improving students' emotional health.³⁷
- Serving breakfast in class instead of the cafeteria raises both math and reading achievement scores by about one-tenth of a standard deviation. Moreover, this effect is strongest for low performing, free-lunch eligible, Hispanic and low BMI students.³⁸
- A pilot program that offered all students a free breakfast in the classroom at twenty New York schools found that it increased breakfast participation from 23 to 58 percent. As a result, tardiness, absenteeism and visits to the nurse and to the principal's office declined significantly. About 80 percent of participating teachers and principals said that the program improved academic performance and behavior, while having little to no interference with classroom teaching.³⁹
- Students are more likely to participate in breakfast when it is served in the classroom. Consuming breakfast at school may enhance food security in families at the margin of food insecurity.⁴⁰

Benefits of School-Wide No Cost Breakfast

- A study on the effects of universal school breakfast, through which all students are offered a school breakfast free of charge, found that math and reading achievement scores increased each year the program was in place. After the implementation of universal school breakfast, school nurses reported a decrease in student complaints of stomachaches and headaches.⁴¹
- Students in schools with universal school breakfast programs are less likely to skip breakfast due to concerns of body image or the stigma of "being poor" that can comes with eating in the cafeteria.⁴²
- Implementation of universal classroom breakfast has been shown to improve class attendance.⁴³
- Hungry students tend to have poor attendance, punctuality and grades, more behavior problems, and are also less likely to participate in school breakfast. Offering universal free breakfast to these students, as occurred in Boston's public schools, significantly improves attendance, school breakfast participation and, consequently, math scores.⁴⁴
- Universal free school breakfast programs have been shown to double breakfast participation. This in turn increased math grades, lowered absence and tardiness rates, and improved teachers' assessments of student's behavior, focus and well-being. ⁴⁵ A USDA pilot program offering free school breakfast to all students also demonstrated that the universal model nearly doubles breakfast participation in elementary schools. The majority of teachers had a positive opinion of the pilot program for breakfast in the classroom. ⁴⁶

AB 1240 is rooted in research as well as the everyday experiences of our teachers and administrators.

If enacted, the bill will increase access to school breakfast on thousands of campuses across the state, preparing more California kids to learn, grown and achieve at their fullest potential.





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