



TRANSFORMING SCIENCE EDUCATION AT MILES DAVIS

ACADEMY WITH NEXT WAVE HYDROPONICS

Customer:

Miles Davis Magnet Academy

Location:

Chicago, Illinois

School Mission:

Our goal is for our students to apply research-based best practices to stimulate personal growth, creativity, and lifelong learning. Students will be prepared to become constructive members of our global society.

Solution:

We Teach
Grades 3-8

The NextWave STEM "We Teach" program transformed the learning experience at Miles Davis Academy, blending traditional science and math education with hands-on, real-world applications. This innovative approach not only sparked creativity among students but also equipped them with essential 21st-century skills. Through the engaging hydroponics course, the academy embraced a modern teaching method, proving that even schools with deep-rooted traditions can evolve and thrive by adopting new ways of learning.

Miles Davis Magnet Academy

Miles Davis Academy, a magnet school located on the south side of Chicago, embarked on an innovative journey to revolutionize its science curriculum through the introduction of a hydroponics course. Led by a passionate educator, the program aimed to engage students from grades three through eight in hands-on, interactive learning experiences. This case study explores the challenges faced, the strategies implemented, and the outcomes achieved through this pioneering educational initiative.



Hands-On Interactive alike an introductory to Scientific Method sustainable practices reading and interpreting data. They will come in every single day and just like rush to the plants and just look at them.

Alison Hanson, Teacher



Challenge:

The primary challenge at Miles Davis Academy was to create a compelling, hands-on science education experience that could captivate the interest of students across a wide age range. The school sought to address the need for an educational approach that not only aligned with the scientific method but also was tangible and directly observable by students. Additionally, the program aimed to overcome the limitations of traditional classroom settings, such as the reliance on devices and the lack of interactive learning opportunities.

Result:

The hydroponics course at Miles Davis Academy was a big hit, making learning fun and hands-on for everyone. It got students really excited about science by letting them see their plants grow in water, no soil needed! They worked together like a team, which made them feel more like a community. Plus, they got to eat what they grew at a "salad party," showing off what they learned in a yummy way. This cool way of teaching science made the classroom a place full of discovery and teamwork, without worrying about grades or homework.