

WHAT WE TEACH

Newark City Schools teaches curricula tied to and defined by Ohio's Learning Standards, which outline what students should understand and be able to do in order to become scientifically literate citizens equipped with knowledge and skills for the 21st century workforce and higher education.

HOW WE TEACH IT

We deliver responsive, flexible instruction based on learner needs. Teachers focus on helping students use *scientific inquiry* (there is no science without inquiry) to discover patterns, trends, structures and relationships that may be described by simple principles. These principles are related to the properties or interactions within and between systems.

21st Century Skills are integral to the science standards and curriculum. Embedded in our science curriculum, these skills include creativity and innovation; critical thinking; problem solving and communication; information, media, and technological literacy; leadership and responsibility; and interdisciplinary, project-based, real-world learning opportunities.

PROGRAM ESSENTIALS

In striving to help all students grow and succeed, we set the following program targets, which outline the scientific processes, with appropriate *laboratory safety techniques*, to construct their knowledge and understanding in all science content areas:

- Identify questions that can be answered through scientific investigations
- Design and conduct a scientific investigation
- Use appropriate mathematics, tools and techniques to gather data and information
- Analyze and interpret data
- Develop descriptions, models, explanations and predictions
- Think critically and logically to connect evidence and explanations
- Recognize and analyze alternative explanations and predictions
- Communicate scientific procedures and explanations.