

## 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 21<sup>st</sup> century workforce and higher education.

Our grade 9 through 12 program includes courses in Physical Science, Biology, Chemistry and Physics, with Advanced Placement offerings in Biology, Chemistry, and Physics. We also offer a variety of courses to satisfy the required third year credit in science.

## 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.

21<sup>st</sup> 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 program targets listed below. By the end of high school, students should graduate with sufficient proficiency in science to:

- Know, use and interpret scientific explanations of the natural world
- Generate and evaluate scientific evidence and explanations, distinguishing science from pseudoscience
- Understand the nature and development of scientific knowledge
- Participate productively in scientific practices and discourse