

## EDUCATIONAL MODEL

# SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM)

GRADES	PRE-K-12	ZONES	1-4
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At IPS, our STEM schools emphasize a hands-on, problem-based learning approach focused on science, technology, engineering, and mathematics. Students will have the opportunity to practice critical thinking, problem-solving, discourse, real-world connection, and goal-oriented actions.

## CURRICULUM FOCUSES

- » Critical thinking and problem solving
- » Real-world application
- » Collaboration and communication

## WHAT TO EXPECT

- » Students will get to explore new ways of thinking and develop critical thinking skills.
- » Courses are student-centered and developed through the lens of inquiry- and problem-based learning practices.
- » Lesson plans connect everyday academic know-how to the reality of our world today.

## AN IN-DEPTH LOOK: STEM

Students will engage in Project Lead The Way (PLTW) courses including: Medical Detectives, Automation and Robotics, and Green Architecture. There will also be an opportunity to work with a computer science educator to hone their engineering skills through the application of theory and design principles.

## IPS SCHOOLS WITH STEM PROGRAMMING

### ZONE 1

**K-8** Cold Spring School at Marian University  
**6-8** William Penn Middle School 49

### ZONE 2

**Pre-K-5** Robert Lee Frost School 106  
**K-8** Cold Spring School at Marian University  
**6-8** Arlington Middle School

### ZONE 3

**K-5** Anna Brochhausen School 88  
**6-8** Arlington Middle School

### ZONE 4

**K-5** James A. Garfield School 31  
**6-8** William Penn Middle School 49