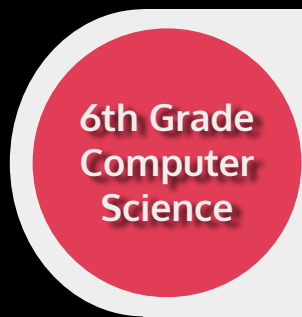


# MIDDLE SCHOOL COMPUTER SCIENCE

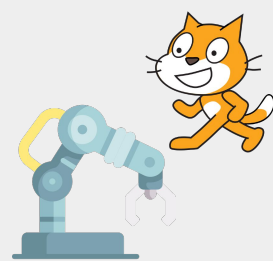


## THE POSSIBILITIES OF PROGRAMMING

Beginning program design and development

## COMPUTING CAREERS AND TECHNOLOGIES

The impact of emerging technologies on activities and careers



## DIGGING INTO DESIGN AND DEVELOPMENT

Computers, program design, and development

## WORKING TOGETHER: HARDWARE AND SOFTWARE

The interaction of hardware and software, including sensors, bluetooth, and more

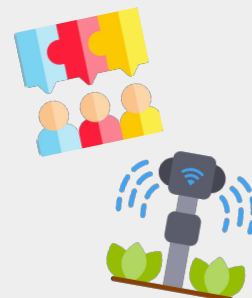


## CREATIVE COMPUTING BOOTCAMP

Design cycle, collaborative team structures, and problem solving

## PROBLEM SOLVING THROUGH CREATIVE COMPUTING

Applying hardware and existing code, media, and libraries to crowdsource solutions to real-world problems



## THE POWER & PERILS OF INFORMATION

When, how, and why we protect and share information

## SECRET CODES

How the internet works: code making, breaking, and cybersecurity

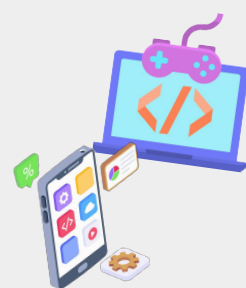


## GAME DESIGN

Understanding algorithms, programming, problem solving and the design process through game design

## PRACTICAL APPLICATIONS OF ALGORITHMS

Algorithms and programming in app development, models, and/or simulations



## THE CODE BEHIND THE WEBSITE

The fundamentals of HTML, CSS, safety, and ethics in website development

## WEBSITE DEVELOPMENT

Collaborative website development, emphasizing the integration of user feedback to enhance usability and accessibility concerns



## DEMYSTIFYING AI & MACHINE LEARNING

Exploring the evolution of AI and machine learning, biases in data, AI inaccuracies, and data security challenges

## AI IMPACT & DEVELOPMENT

Understanding the ethics and impacts of AI and developing AI solutions

