

## Learning AI to Shape the Future

Learning AI to Shape the Future is designed to prepare secondary students for the AI-driven future. This course offers a unique, holistic approach to AI education, structured around five interconnected strands that provide an understanding of AI, its applications, and its impact on society. With six carefully crafted lessons per academic year, the curriculum progressively builds in complexity and scope, ensuring students develop a deep understanding of AI.

### Key Learning Objectives

- Fundamental AI concepts and their evolution
- Ethical considerations and responsible AI use
- Practical applications of AI in daily life and education
- AI's impact on various industries and future careers
- Cutting-edge AI innovations and their potential to address global challenges



### AI Strands and Learning Outcomes

#### AI Basics: What You Need to Know

The AI Basics: What You Need to Know strand provides a fundamental introduction to artificial intelligence, covering basic AI concepts, applications, and their impact on society.

**Students will:**

- Learn basic AI concepts and how AI influences everyday life, including its role in shaping online content and the choices we make.
- Identify important moments in AI history and how it has grown over the years.

#### Staying Safe and Smart with AI

This strand empowers students to become responsible, ethical, and discerning users of AI technology, preparing them to navigate the challenges and opportunities of an AI-driven future safely and intelligently.

**Students will:**

- Identify how to use AI tools safely and practice responsible digital citizenship online.
- Understand why it's important to keep data private and learn how to do this when using AI.
- Learn to use AI tools ethically and responsibly for school assignments and projects while critically evaluating the reliability of AI-generated information.

#### Everyday AI: How to Use It

The Everyday AI: How to Use It strand engages students in a practical exploration of AI applications in daily life, education, and the community, equipping them with the knowledge and skills needed to effectively use AI tools.

**Students will:**

- Identify and describe AI applications in everyday life and explain their benefits.
- Learn to create and optimize prompts for AI tools, understanding how input affects output.
- Explore how AI can help make art and music, without sacrificing on what's fair/right.

#### AI and the World of Work

This strand engages students in an exploration of AI applications across 16 Career Clusters, providing them with a deep understanding of AI's transformative impact on different industries.

**Students will:**

- Investigate how AI is utilized in various professional fields and understand its impacts on different career paths.
- Examine how AI technologies address challenges across industries, considering how they might reshape workforce dynamics.
- Investigate AI technologies used in various fields and evaluate their functionalities and limitations.

#### AI: Today's Innovations and Tomorrow's Breakthroughs

This strand highlights how AI is transforming the world, solving global and local challenges, and shaping our future.

**Students will:**

- Investigate creative AI-based solutions for global and community struggles.
- Identify and evaluate innovative applications of AI.

# Learning AI to Shape the Future

## Year 1 Lessons

### AI Basics: What You Need to Know

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*Lesson: Artificial Intelligence 101: Your Journey into the World of Smart Machines*

This lesson introduces fundamental AI concepts and applications. Students will define artificial intelligence and its basic components, identify simple AI applications in everyday life, and understand machine perception.

### Staying Safe and Smart with AI

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*Lesson: Digital Defense: Navigating the AI Frontier Safely*

This lesson focuses on basic AI safety principles. Students will identify key AI safety rules, recognize the importance of adult supervision, and understand personal information protection.

### Everyday AI: How to Use It

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*Lesson: AI Detectives: Uncovering Smart Tech in Your World*

This lesson helps students learn to identify AI in daily life, recognize AI applications in everyday tools, and explain the benefits and drawbacks of AI.

### AI and the World of Work

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*Lesson: Sky Farmers: High-Tech Agriculture Takes Flight*

This lesson explores drones and AI in modern agriculture. Students will understand how AI and drones are used in precision agriculture and identify potential careers in AI-assisted agriculture.

Focus: Agriculture, Food & Natural Resources Career Cluster and AI

### AI and the World of Work

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*Lesson: Game Soundscapes: AI's Musical Revolution*

This lesson helps students understand how AI is transforming music composition in video games, including the role of AI Music Producers and ethical considerations in creative fields.

Focus: Arts, Audio/Video Technology & Communications Career Cluster and AI

### AI: Today's Innovations and Tomorrow's Breakthroughs

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*Lesson: AI Athletics: The High-Tech Playbook*

This lesson covers the innovative AI applications in athletics. Students will identify AI uses in sports and evaluate its benefits and drawbacks.