

# Tennessee Teen Social Media and Internet Safety

Middle or High School Unit - (10 hours)

## Course Overview and Goals

This unit helps students develop responsible and safe social media and internet practices. It is fully aligned to the instructional guidance developed by the Tennessee Department of Education under the Tenn. Code Ann. §§ 49-6-4601 - 4605, known as the "Teen Social Media and Internet Safety Act".

[Tennessee Teen Social Media and Internet Safety Guidance](#)

Schools can insert this unit in their existing CodeHS courses, or teach as a standalone unit.

## Learning Environment

This course utilizes a blended classroom approach. The content is fully web-based, with students working within the CodeHS platform. Lessons consist of content delivered through notes, quizzes, activities, and free-response activities.

## Technology Requirements

Review the technical setup guide here:

<https://help.codehs.com/en/articles/5117933-technical-set-up-guide>

## Prerequisites

There are no prerequisites for this course.

## More Information

Browse the content of this course at <https://codehs.com/course/28550/explore>.

## Course Breakdown

### Module 1: Artificial Intelligence (4 hours)

In this module, students will gain an understanding of the main concepts and vocabulary around AI.

Objectives / Topics Covered	<ul style="list-style-type: none"><li>● How to Use AI Tools Safely</li><li>● Human and Artificial Intelligence</li><li>● Generative vs Predictive AI</li><li>● Large Language Models</li><li>● Prompt Engineering</li><li>● Prompt Practice &amp; Refinement</li><li>● Who Builds AI?</li></ul>
Example Assignments	<ul style="list-style-type: none"><li>● Generative vs Predictive<ul style="list-style-type: none"><li>○ Students explore different applications of AI</li></ul></li><li>● Large Language Models: Chatbot Arena<ul style="list-style-type: none"><li>○ Students compare LLMs through the Chatbot Arena tool</li></ul></li><li>● Prompt Engineering: Generate an Image<ul style="list-style-type: none"><li>○ Students use prompt engineering techniques to generate an image</li></ul></li></ul>

### Module 2: Ideation, Prompting, and Debugging (6 hours)

Students will explore how artificial intelligence appears in their everyday lives and select one to research in depth. They will analyze how the AI works, why it's used, and evaluate its benefits and risks, including issues like bias, safety, and fairness, in a short written report or slideshow presentation supported by at least one reputable source.

Objectives / Topics Covered	<ul style="list-style-type: none"><li>● Brainstorming AI in Daily Life</li><li>● Peer Review</li><li>● Reflection</li></ul>
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### Module 3: Project: Digital Record (2+ hours)

Students will learn the fundamentals of machine learning, covering its lifecycle, supervised, unsupervised, and reinforcement learning, and explore bias within learning models.

<p>Objectives / Topics Covered</p>	<ul style="list-style-type: none"> <li>● Introduction to Machine Learning</li> <li>● Supervised Learning</li> <li>● Unsupervised Learning</li> <li>● Reinforcement Learning</li> <li>● Data's Role in Machine Learning</li> <li>● Project: Build a Sorting Machine</li> </ul>
<p>Example Assignments</p>	<ul style="list-style-type: none"> <li>● Introduction to ML: CNN Visualization <ul style="list-style-type: none"> <li>○ Students observe how a CNN gathers data on an image and makes a prediction as to what it could represent</li> </ul> </li> <li>● Supervised Learning: Apples vs Bananas <ul style="list-style-type: none"> <li>○ Students train a model that categorizes apples and bananas</li> </ul> </li> <li>● Unsupervised Learning: Bird Sounds <ul style="list-style-type: none"> <li>○ Students explore how an AI used unlabeled data to categorize bird sounds</li> </ul> </li> <li>● Reinforcement Learning: Reinforcement Learning Game <ul style="list-style-type: none"> <li>○ Students engage with a visual depiction of reinforcement learning.</li> </ul> </li> </ul>

### Module 4: Design (4 hours)

In this hands-on module, students will learn how to train AI models and will explore the use cases for AI in various industries.

<p>Objectives / Topics Covered</p>	<ul style="list-style-type: none"> <li>● How Are AI Models Trained?</li> <li>● AI Models in Industry</li> <li>● Bias in Training</li> <li>● Ethics and AI</li> <li>● Project: Ethics Case Study</li> </ul>
<p>Example Assignments</p>	<ul style="list-style-type: none"> <li>● How Are AI Models Trained: Turning on a Light <ul style="list-style-type: none"> <li>○ Students train and use an AI model to control a program</li> </ul> </li> <li>● AI Models in Industry <ul style="list-style-type: none"> <li>○ Students pick an industry to explore use cases of AI</li> </ul> </li> <li>● Bias in Training <ul style="list-style-type: none"> <li>○ Students explore multiple ways bias creeps into AI programs through the use of bad training data</li> </ul> </li> </ul>

### Module 5: Project: Build a Website for a Client (2+ hours)

Students will explore the ethical implications and risks of AI technology, including bias, hallucinations, security, misinformation, and legal challenges. Students will engage in a debate about AI and create their own AI policies.

<p>Objectives / Topics Covered</p>	<ul style="list-style-type: none"> <li>● Effects of Using Biased AI</li> <li>● Hallucinations and Security Risks</li> <li>● Deepfakes and Misinformation</li> <li>● Project: AI on Trial</li> <li>● You, Your Data, and AI</li> <li>● Environmental Impacts of AI</li> <li>● AI Governance and the Future of AI</li> <li>● Project: Designing a Responsible AI Future</li> </ul>
<p>Example Assignments</p>	<ul style="list-style-type: none"> <li>● Effects of Using Biased AI <ul style="list-style-type: none"> <li>○ Students explore how using biased AI affects people in negative ways</li> </ul> </li> <li>● Hallucinations and Security Risks: Image Prompt Injection <ul style="list-style-type: none"> <li>○ Students explore the security risks involved with using LLMs and they simulate a prompt injection using an image</li> </ul> </li> <li>● Deepfakes and Misinformation <ul style="list-style-type: none"> <li>○ Students learn how deepfakes are created and how they can spot and defend themselves from the dangers they pose</li> </ul> </li> <li>● Project: AI on Trial <ul style="list-style-type: none"> <li>○ Students explore the legal challenges that generative AI faces and they prepare for and engage in a debate around this topic</li> </ul> </li> <li>● You, Your Data, and AI <ul style="list-style-type: none"> <li>○ Students weigh the tradeoffs of creating a digital footprint and using AI</li> </ul> </li> <li>● Environmental Impacts of AI <ul style="list-style-type: none"> <li>○ Students create a one-pager of the pros and cons of an AI-related environmental topic</li> </ul> </li> <li>● AI Governance and the Future of AI <ul style="list-style-type: none"> <li>○ Students explore existing AI policies before developing their own</li> </ul> </li> </ul>

### Module 6: Project: AI-Powered Game Studio (2+ hours)

Students will create a game then solve a real world problem with the help of AI.

<p>Objectives / Topics Covered</p>	<ul style="list-style-type: none"> <li>● Introduction to AI-Assisted Coding</li> <li>● Project: AI-Assisted Coding</li> </ul>
<p>Example Assignments</p>	<ul style="list-style-type: none"> <li>● Introduction to AI-Assisted Coding <ul style="list-style-type: none"> <li>○ Students create their own Connections Game with the help of AI</li> </ul> </li> <li>● Project: AI-Assisted Coding</li> </ul>

	<ul style="list-style-type: none"> <li>○ Students solve a real-world problem with AI assistance</li> </ul>
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### Supplemental: Alternative Assignments

The alternative assignments provide a variety of low-tech, accessible, or different ways for students to engage with each module's content. Choose to supplement or replace activities as needed.

Objectives / Topics Covered	<ul style="list-style-type: none"> <li>● Intro to AI</li> <li>● Machine Learning</li> <li>● Training AI Models</li> <li>● Risks of AI</li> <li>● Coding with AI Tools</li> <li>● Careers and AI</li> </ul>
Example Assignments	<ul style="list-style-type: none"> <li>● Machine Learning: Sort It Out! Be the AI             <ul style="list-style-type: none"> <li>○ Students act like an AI model and learn from labeled "training data" then make predictions on new, unlabeled "mystery data"</li> </ul> </li> <li>● Risks of AI: AI Ethics Board             <ul style="list-style-type: none"> <li>○ Students read situations where an AI may have made an unfair decision, then decide if the AI was fair or unfair, and explain how to improve it</li> </ul> </li> </ul>