AI Ready Skills

Integration in Washington Social Studies - History

Overview

AI Ready Skills offers a dynamic and standards-aligned approach to teaching Social Studies-History through artificial intelligence concepts. It supports Washington State's emphasis on critical thinking, ethical reasoning, media literacy, and digital communication, while engaging students in immersive learning environments like Minecraft Education.

Credential Units Overview

- **Unit 1: Introduction to AI** – What AI is and is not, types of AI, history, and problem-solving.
- **Unit 2: Exploring Data and AI** – Machine learning, data importance, real-world applications.
- **Unit 3: Coding and AI** – Programming for AI, data collection, and algorithm design.
- **Unit 4: Practicing Responsible AI** – Ethics, fairness, bias, and responsible use of AI.

Washington State Social Studies - History Standards Alignment

The integration aligns with the Washington State K–12 Learning Standards for Social Studies-History, which emphasize:

The student understands and applies knowledge of historical thinking, chronology, eras, turning points, major ideas, individuals, and themes of local, Washington state, tribal, United States, and world history to evaluate how history shapes the present and future.

Implementation Tips

- This curriculum is suitable for middle school Social Studies.
- AI Ready Skills uses **Minecraft Education** to create immersive learning environments.
- AI Ready Skills focuses on Human-Centered AI thinking:
    - Begin with human inquiry.
    - Use AI tools to explore and analyze.
    - End with human reflection and insight. This approach ensures ethical, inclusive, and responsible use of AI in classrooms.

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- Connect AI to Real-World Applications:
    - Encourage students to explore how AI affects careers, media, and society.
    - Use case studies and current events to spark discussion.
    - Promote digital citizenship and ethical reasoning.
- Support differentiated instruction:
    - Use student-led pacing for independent learners.
    - Offer teacher-led structure for guided exploration.
    - Include extension activities for advanced learners or remediation.
- Includes formative activities and a capstone credential exam.
- Practice exams and lesson quizzes to help students prepare for the Capstone exam.
- AI Ready Skills is flexible. Customize projects and activities to fit your curriculum. Adjust activity topics to match the material you are covering.
- If you need help getting started, we offer free Certified Educator courses, *Getting Started Guide*, Webinars, and experienced product specialists.
- Utilize instructor resources. Access lesson plans, slide decks, answer keys, and assessments in the AI Ready Skills portal.

AI Ready Skills Integration in Social Studies- History – Unit 1

AI Ready Skills Unit, Lesson	**Example Activities**	**WA Standards Practiced**	**Instructional Hours**
Unit 1, Lesson 1: What is Artificial Intelligence?	• Student Notes Worksheet • AI Detectives Activity • AI or Not AI Activity • AI Is Important Activity • Reflection Questions Activities • Student Vocab Slides • Lesson 1 Quiz	• H1.6-8.2 • H2.6-8.1 • H3.6-8.1 • H3.6-8.2 • H3.6-8.3	4 Hours

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Unit 1, Lesson 2: History of AI	• Student Notes Worksheet • AI History Timeline	• H1.6-8.1 • H1.6-8.4 • H2.6-8.1 • H2.6-8.4 • H3.6-8.1 • H4.6-8.1	3 Hours
Unit 1, Lesson 3: Types of AI	• AI Brainstorming Activity • Generative AI Activity • Reflection Questions	• H1.6-8.4 • H2.6-8.1 • H2.6-8.4 • H3.6-8.1 • H4.6-8.1	5 Hours
Unit 1, Lesson 4: Solving Problems with AI	• AI Problem-Solving Challenge • AI in Daily Life • Student Notes Worksheet	• H1.6-8.1 • H2.6-8.2 • H3.6-8.1 • H4.6-8.1 • H5.6-8.1	3 Hours

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Washington State Social Studies - History Standards Alignment

The following standards are practiced through AI Ready Skills activities and credential units:

Unit 1, Lesson 1: What is Artificial Intelligence?

- **H1.6-8.2:** Explain how the rise of civilizations defines eras in world history in two or more regions of the world.
- **H2.6-8.1:** Analyze how individuals, movements, technological developments, and cultural and ethnic groups have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives.
- **H3.6-8.2:** Analyze multiple causal factors that shape major events in history.
- **H3.6-8.3:** Explain, analyze, and compare different historical interpretations.

Lesson 1 Connections to Washington Standards

Lesson Reflections

- Students explore the historical development of automation and compare it to current AI technologies, identifying key transitions across eras.
- Students reflect on historical skepticism or enthusiasm for technology and compare it to current public opinion on AI.

AI is Important Student Activity

- Students evaluate how AI automation has influenced labor, education, and healthcare, drawing parallels to historical technological shifts.
- Students compare traditional decision-making methods with AI systems, interpreting how perspectives on technology have changed over time.
- Students debate how AI compares to historical innovations in terms of impact, considering political, economic, and cultural factors.

Unit 1, Lesson 2: History of AI

- **H1.6-8.4:** Analyze a major historical event and how it is represented on timelines from different cultural perspectives, including those of Indigenous people.
- **H2.6-8.1:** Explain and analyze how individuals, movements, cultural and ethnic groups, and technology from past civilizations have shaped world history.
- **H1.6-8.1:** Analyze different cultural measurements of time.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in world history.
- **H2.6-8.4:** Explain and analyze how technology and ideas have impacted Washington state history since statehood.
- **H4.6-8.1:** Analyze how a historical event in world history helps us to understand contemporary issues and events.

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Lesson 2 Connections to Washington Standards

Student Notes Worksheet and Reflections

- Students reflect on how technological advances (AI) are represented in historical timelines, considering multiple perspectives.
- Students use vocabulary to discuss how AI and technology have impacted society and history.

AI History Timeline

- Students research how AI developments occurred in different eras and cultures, and how these shaped global patterns.
- Students connect the contributions of individuals in AI to changes in world history and technological development.
- Students use visuals and timelines to explain how AI innovations relate to historical, cultural, and technological changes.
- Students evaluate how AI technologies and ideas from the past help us understand current technological and societal issues.

Unit 1, Lesson 3: Types of AI

- **H2.6-8.1:** Explain and analyze how individuals, movements, cultural and ethnic groups, and technology from past civilizations have shaped world history.
- **H4.6-8.1:** Analyze how a historical event in world history helps us to understand contemporary issues and events.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in world history.
- **H2.6-8.4:** Explain and analyze how technology and ideas have impacted Washington state history since statehood.
- **H1.6-8.4:** Analyze a major historical event and how it is represented on timelines from different cultural perspectives, including those of Indigenous people.

Lesson 3 Connections to Washington Standards

Generative/Predictive AI Activities

- Students use data to predict outcomes, similar to how historians use evidence to interpret and represent events on timelines.

AI Handshake Algorithm Activity

- Students interpret and revise algorithms based on feedback, mirroring how historians analyze and revise interpretations of historical events.

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Reflection Questions

- Students analyze how technological advances in AI reflect and shape broader historical trends and societal changes.
- Students connect past and present technological innovations to predict and understand future societal challenges.
- Students examine how the adoption of AI technologies has influenced local history and society.
- Students reflect on the ethical use of technology, considering multiple perspectives and historical lessons.

Unit 1 Lesson 4: Solving Problems with AI

- **H1.6-8.1:** Analyze different cultural, religious, and economic perspectives on a historical event or issue**.**
- **H2.6-8.2:** Explain and analyze how individuals and movements have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in history.
- **H4.6-8.1:** Use evidence from multiple sources to support historical arguments.
- **H5.6-8.1:** Analyze how understanding history can help us make informed decisions about the present and future.

Lesson 4 Connections to Washington Standards

AI Problem-Solving Challenge

- Students analyze how the introduction of AI compares to other major technological shifts in history, considering multiple perspectives.
- Students investigate how societies have responded to new technologies in the past, using primary and secondary sources.

Student Notes Worksheet

- Students compare the societal impact of AI to that of past innovations, discussing how individuals and groups have influenced change.
- Students examine ethical debates about technology (e.g., privacy, labor) in history and use evidence to support their analysis.
- Students reflect on historical patterns and lessons to consider how society should approach the challenges and opportunities of AI.

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AI Ready Skills Integration in Social Studies - History – Unit 2

AI Ready Skills Unit, Lesson	Example Activities	WA Standards Practiced	Instructional Hours
Unit 2, Lesson 5: Machine Learning and Data	• Facial Recognition Bias Reflection • Machine Learning Research • Student Notes Worksheet	• H1.6-8.1 • H2.6-8.2 • H3.6-8.1 • H4.6-8.1 • H5.6-8.1	7 Hours
Unit 2, Lesson 6: Real-World Applications of AI	• AI-Powered Farm • Healthcare Ethics Debate • AI Script Writing	• H1.6-8.1 • H2.6-8.1 • H2.6-8.2 • H3.6-8.1 • H4.6-8.1 • H5.6-8.1	8 Hours

Washington State Social Studies – History - Standards Alignment

The following standards are practiced through AI Ready Skills activities and credential units:

Unit 2, Lesson 5: Machine Learning and Data

- **H1.6-8.1:** Analyze different cultural, religious, and economic perspectives on a historical event or issue.
- **H2.6-8.2:** Explain and analyze how individuals and movements have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in history.
- **H4.6-8.1:** Use evidence from multiple sources to support historical arguments.
- **H5.6-8.1:** Analyze how understanding history can help us make informed decisions about the present and future.

Lesson 5 Connections to Washington Standards

Machine Learning Research Project

- Students analyze how the introduction of AI compares to other major technological shifts in history, considering multiple perspectives.
- Students investigate how societies have responded to new technologies in the past, using primary and secondary sources.

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Student Notes Worksheet

- Students compare the societal impact of AI to that of past innovations, discussing how individuals and groups have influenced change.
- Students examine ethical debates about technology (e.g., privacy, labor) in history and use evidence to support their analysis.
- Students reflect on historical patterns and lessons to consider how society should approach the challenges and opportunities of AI.

Unit 2, Lesson 6: Real-World Applications of AI

- **H1.6-8.1:** Analyze different cultural, religious, and economic perspectives on a historical event or issue.
- **H2.6-8.2:** Explain and analyze how individuals and movements have shaped history.
- **H2.6-8.1**: Explain and analyze how individuals and movements have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in history.
- **H4.6-8.1:** Use evidence from multiple sources to support historical arguments.
- **H5.6-8.1:** Analyze how understanding history can help us make informed decisions about the present and future.

Lesson 6 Connections to Washington Standards

AI-Powered Farm Activity

- Students create and present plans for AI-powered farms, relating their ideas to historical shifts in farming technology and practices.

Self-Driving Cars Activity

- Students research and present how self-driving cars have evolved, considering how different societies and economies have responded to this innovation.

AI-Powered Learning Platform Activity

- Students examine how AI-powered learning platforms have changed educational practices, discussing the role of innovators and movements in shaping these changes.

Healthcare Ethics Debate

- Students research, construct arguments, and debate the role of AI in healthcare, using historical examples of medical ethics debates to support their positions.

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Reflection Activities

- Students compare human and AI-generated scripts, reflecting on how technology has influenced storytelling and creative arts over time.
- Students research and present on the historical impact of technology in various sectors, reflecting on lessons from history to inform future choices.
- Students reflect on how AI is changing society, drawing connections to historical examples of technological change and their cultural, ethical, and economic impacts.

AI Ready Skills Integration in Social Studies – History – Unit 3

AI Ready Skills Unit, Lesson	Example Activities	WA Standards Practiced	Instructional Hours
Unit 3, Lesson 7: Coding in AI	• Reflection Questions • Tic Tac Toe Student Activity • Student Notes Worksheet • AI Algorithm Activity	• H1.6-8.1 • H2.6-8.1 • H2.6-8.2 • H3.6-8.1 • H4.6-8.1 • H5.6-8.1	5 Hours
Unit 3, Lesson 8: AI Projects	• Reflection Questions • AI Projects Research • Student Notes Worksheet	• H1.6-8.1 • H2.6-8.2 • H3.6-8.1 • H4.6-8.1 • H5.6-8.1	5 Hours

Washington State Social Studies – History - Standards Alignment

The following standards are practiced through AI Ready Skills activities and credential units:

Unit 3, Lesson 7: Coding in AI

- **H4.6-8.1:** Use evidence from multiple sources to support historical arguments.
- **H2.6-8.2:** Explain and analyze how individuals and movements have shaped history.
- **H2.6-8.1:** Explain and analyze how individuals and movements have shaped history.
- **H1.6-8.1:** Analyze different cultural, religious, and economic perspectives on a historical event or issue.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in history.
- **H5.6-8.1:** Analyze how understanding history can help us make informed decisions about the present and future.

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Lesson 7 Connections to Washington Standards

Lesson 7 Reflections

- Students discuss responsible data practices in AI and compare them to historical examples of privacy, consent, and information control.
- Students discuss how AI is changing society, drawing connections to historical examples of technological change and their cultural, ethical, and economic impacts.

Students Notes Worksheet

- Students analyze how strategies in tic-tac-toe and sorting algorithms reflect the development of decision-making tools throughout history.
- Students organize and present their AI work, practicing documentation and connecting to the importance of historical records.

Building an AI Activity

- Students create and deploy an AI agent, relating their work to historical shifts in automation and labor-saving technologies.
- Students code and test AI agents, relating their work to historical breakthroughs in technology and innovation.

AI Data Collection Activity

- Students plan and discuss data collection for AI, connecting their work to the evolution of data gathering and analysis in history.

AI Algorithm Activity

- Students reflect on collaboration in AI development, comparing it to historical examples of teamwork in scientific and technological progress.
- Students reflect on how algorithmic logic has influenced historical events and consider how lessons from history can inform present-day AI use.

Unit 3, Lesson 8: AI Projects

- **H1.6-8.1:** Analyze different cultural, religious, and economic perspectives on a historical event or issue.
- **H2.6-8.2:** Explain and analyze how individuals and movements have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in history.
- **H4.6-8.1:** Use evidence from multiple sources to support historical arguments.
- **H5.6-8.1:** Analyze how understanding history can help us make informed decisions about the present and future.
- **H4.6-8.1:** Use evidence from multiple sources to support historical arguments.

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Lesson 8 Connections to Washington Standards

Lesson 8 Reflection

- Students organize and present their research and reflections, practicing documentation and connecting to the importance of historical records.

Water Quality Reflection

- Students consider how access to clean water has shaped societies and how technological solutions like AI compare to historical approaches.

AI Projects Research

- Students reflect on how past technological shifts inform predictions about AI's impact on society and the importance of learning from history.
- Students use evidence from research and reflection to discuss how both past and present technologies have faced challenges and limitations.
- Students connect AI technologies to historical changes in how societies process, store, and communicate information.
- Students investigate the development of AI, highlight key innovators or movements, and present how these have influenced modern life.

AI Ready Skills Integration in Social Studies – History – Unit 4

AI Ready Skills Unit, Lesson	Example Activities	WA Standards Practiced	Instructional Hours
Unit 4, Lesson 9: What is Ethics?	• Reflection Questions • Ethics in AI Case Studies	• H1.6-8.1 • H2.6-8.2 • H3.6-8.1 • H4.6-8.1 • H5.6-8.1	6 Hours
Unit 4, Lesson 10: AI Bias, Fairness, and Inclusiveness	• AI Bias and Fairness Comic Strip • AI Bias Detective • Explore Inclusiveness in AI	• H1.6-8.1 • H2.6-8.2 • H3.6-8.1 • H4.6-8.1 • H5.6-8.1	6 Hours

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Unit 4, Lesson 11: Privacy and Security	• AI Privacy Poster Campaign • AI Security Breach Case Analysis • Lesson 11 Reflection • Student Notes Worksheet	• H1.6-8.2 • H2.6-8.1 • H3.6-8.1 • H3.6-8.2 • H3.6-8.3	4 Hours
Unit 4, Lesson 12: Reliability and Safety in AI	• AI Safety Guidelines • Build Your Own Reliable AI • Student Notes Worksheet	• H1.6-8.2 • H1.6-8.4 • H2.6-8.1 • H3.6-8.1 • H3.6-8.2 • H3.6-8.3	6 Hours
Unit 4, Lesson 13: Transparency and Accountability	• Accountability Scavenger Hunt • Student Notes Worksheet • AI Transparency Debate	• H1.6-8.2 • H1.6-8.4 • H2.6-8.1 • H3.6-8.1 • H3.6-8.2 • H3.6-8.3	4 Hours

Washington State Social Studies – History - Standards Alignment

The following standards are practiced through AI Ready Skills activities and credential units:

Unit 4, Lesson 9: What are Ethics?

- **H1.6-8.1**: Analyze different cultural, religious, and economic perspectives on a historical event or issue.
- **H2.6-8.2:** Explain and analyze how individuals and movements have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in history.
- **H4.6-8.1:** Use evidence from multiple sources to support historical arguments.
- **H5.6-8.1:** Analyze how understanding history can help us make informed decisions about the present and future.

Lesson 9 Connections to Washington Standards

Reflections and Student Notes Worksheet

- Students reflect on historical lessons about fairness and equity to inform their views on ethical AI development and use.

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Ethics in AI Case Studies

- Students analyze case studies and use evidence to argue for ethical improvements in AI, mirroring historical inquiry methods.
- Students connect modern privacy concerns in AI to historical debates about civil liberties and government transparency.
- Students explore how ethical concerns in AI reflect broader historical movements for justice, equity, and responsible innovation.
- Students examine bias in AI systems and compare it to historical examples of inequality and discrimination, reflecting on societal impacts.

Unit 4, Lesson 10: AI Bias, Fairness, and Inclusiveness

- **H1.6-8.1:** Analyze different cultural, religious, and economic perspectives on a historical event or issue.
- **H2.6-8.2:** Explain and analyze how individuals and movements have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives in history.
- **H4.6-8.1:** Use evidence from multiple sources to support historical arguments.
- **H5.6-8.1:** Analyze how understanding history can help us make informed decisions about the present and future.

Lesson 10 Connections to Washington Standards

Explore Inclusiveness in AI Activity

- Students explore how efforts to make AI fair and inclusive mirror historical movements for civil rights and social justice.
- Students synthesize learning about fairness and bias in AI, using historical context to inform future technology decisions.

AI Bias and Fairness Comic Strip

- Students examine how bias in AI reflects historical patterns of exclusion, comparing modern technology to past societal inequalities.

AI Bias Detective

- Students interpret AI case studies and reflect on how biased systems can perpetuate historical injustices or promote equity.
- Students analyze data scenarios and use evidence to argue for ethical improvements in AI, applying historical reasoning.

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Unit 4, Lesson 11: Privacy and Security

- **H1.6-8.2:** Explain how the rise of civilizations defines eras in world history in two or more regions of the world.
- **H2.6-8.1:** Analyze how individuals, movements, technological developments, and cultural and ethnic groups have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives.
- **H3.6-8.2:** Analyze multiple causal factors that shape major events in history.
- **H3.6-8.3:** Explain, analyze, and compare different historical interpretations.

Lesson 11 Connections to Washington Standards

AI Privacy Poster Campaign

- Students trace the development of privacy and security issues as technology evolves, connecting these changes to broader historical eras.
- Students use historical documents and modern articles to compare how privacy concerns have changed over time and across cultures.

AI Security Breach Case Analysis

- Students examine how advances in AI and data security have influenced social, economic, and political developments.

Lesson 11 Reflection

- Students discuss how various factors (technology, public opinion, government action) have influenced the development of privacy laws.
- Students reflect on and compare different interpretations of how past events have influenced present-day views on AI and privacy.

Unit 4, Lesson 12: Reliability and Security

- **H1.6-8.2:** Explain how the rise of civilizations defines eras in world history in two or more regions of the world.
- **H2.6-8.1:** Analyze how individuals, movements, technological developments, and cultural and ethnic groups have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives.
- **H1.6-8.4:** Analyze a major historical event and how it is represented on timelines from different cultural perspectives, including those of Indigenous people.
- **H3.6-8.2:** Analyze multiple causal factors that shape major events in history.
- **H3.6-8.3:** Explain, analyze, and compare different historical interpretations.

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Lesson 12 Connections to Washington Standards

AI Safety Guidelines

- Students compare primary sources and modern policies to understand how societies have addressed safety and reliability in technology over time.
- Students build timelines that include diverse perspectives on key events in the development of AI safety and reliability.

Build Your Own Reliable AI

- Students reflect on and compare different interpretations of how past events have influenced present-day views on AI reliability and safety.
- Students discuss how various factors (government, industry, public opinion) have influenced the development of safety standards for technology.
- Students investigate case studies of technological failures and discuss their historical consequences and lessons learned.
- Students research and present how safety and reliability concerns have evolved across different technological eras and cultures.

Unit 4, Lesson 13: Transparency and Accountability

- **H1.6-8.2:** Explain how the rise of civilizations defines eras in world history in two or more regions of the world.
- **H2.6-8.1:** Analyze how individuals, movements, technological developments, and cultural and ethnic groups have shaped history.
- **H3.6-8.1:** Analyze and interpret historical materials from a variety of perspectives.
- **H1.6-8.4:** Analyze a major historical event and how it is represented on timelines from different cultural perspectives, including those of Indigenous people.
- **H3.6-8.2:** Analyze multiple causal factors that shape major events in history.
- **H3.6-8.3:** Explain, analyze, and compare different historical interpretations.

Lesson 13 Connections to Washington Standards

Accountability Scavenger Hunt

- Students investigate how transparency and accountability have evolved in technology across different eras and cultures and compare these developments to current AI practices.
- Students examine case studies where transparency or accountability in technology influenced historical outcomes, discussing lessons learned and societal change.
- Students build timelines that include diverse perspectives on key events in the development of accountability and transparency in technology.
- Students discuss how various factors (government, industry, public opinion) have influenced the development of ethical standards and accountability in technology.

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- Students reflect on and compare different interpretations of how past events have influenced present-day views on transparency and accountability in AI.

AI Transparency Debate

- Students participate in debates and use primary/secondary sources to compare how societies have addressed ethical dilemmas in technology over time.

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