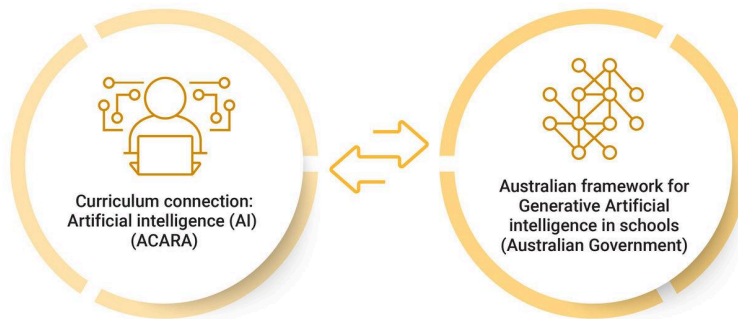


Hills AI Digital Citizenship Scope & Sequence: Reception - 10

 Theme: "Growing Digital Wisdom: From Seedlings to Forest Guardians"

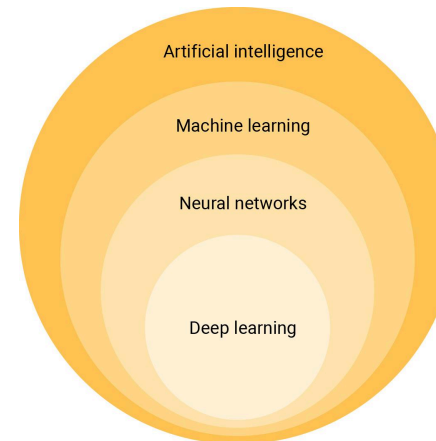
The AI Digital Citizenship Scope and Sequence is a comprehensive program designed to equip students from Reception to Year 10 with the knowledge, skills, and ethical understanding necessary to navigate the evolving landscape of Artificial Intelligence (AI).

Supporting Documents & Resources



Below are key resources and documents referenced throughout the curriculum:

- **Common Sense Education AI Literacy Lessons:** [AI Literacy Lessons for Grades 6–12](#)
- **Password Power-Up Lesson (Year 3–4):** [Lesson Link](#)
- **Spotting Misinformation (Year 5–6):** [Lesson Link](#)
- **Australian Curriculum Guidelines on AI:** [ACARA AI Curriculum Connection](#)
- **Interactive Fact-Checking Activity (Year 7–9):** [Lesson Link](#)
- **AI Ethical Design Guidelines (Year 10):** Guidelines Resource
- **AI Chatbot Evaluation Activity (Year 10):** Evaluation Resource








The *AI Digital Citizenship Scope and Sequence* is a comprehensive program designed to equip students from **Reception to Year 10** with the knowledge, skills, and ethical understanding necessary to navigate the evolving landscape of **Artificial Intelligence (AI)**. The curriculum focuses on:

- **Analytical AI:** Systems that analyze data and provide insights (e.g., Google Home, search engines).
- **Generative AI:** Systems that create new content (e.g., ChatGPT, DALL-E).

This sequence integrates AI concepts into **digital citizenship, critical thinking, ethics, and real-world applications**, fostering responsible and informed technology use.

Supporting Goals: ☒ Develop foundational AI literacy skills. ☒ Cultivate privacy and data protection habits. ☒ Promote ethical considerations in AI use. ☒ Encourage creativity and problem-solving with AI tools. ☒ Enable students to identify and address misinformation.

	Year Level Focus			Year Level Focus	
	<div><h3>Reception–Year 2: Planting Seeds of Awareness</h3><p>Nature Analogy: <i>Seeds in fertile soil – curiosity and foundational awareness begin to grow.</i></p><ul style="list-style-type: none">● Focus Area: Foundational understanding of how AI tools like Google Home and weather predictions work.● AI Type: Analytical AI● Key Concepts: Basic privacy awareness, recognizing patterns, understanding AI in daily tools.● Data Connections: Exploring how AI tools use basic data inputs to provide answers.● Supporting Lessons: Exploring privacy basics, using AI tools responsibly.</div>	<div><h3>Year 3–4: Nurturing Saplings</h3><p>Nature Analogy: <i>Young trees growing taller – stronger foundations and deeper understanding develop.</i></p><ul style="list-style-type: none">● Focus Area: Practical applications of AI in search engines and digital tools.● AI Type: Analytical AI● Key Concepts: Search engine results, password security, identifying reliable information.● Data Connections: Understanding how search engines use data to rank results.● Supporting Lessons: Password Power-Up Lesson</div>		<div><h3>Year 5–6: Branching Out into Ethical Awareness</h3><p>Nature Analogy: <i>Branches extend outward – ethical considerations and creative exploration take root.</i></p><ul style="list-style-type: none">● Focus Area: Ethical use of AI, exploring privacy, and understanding bias.● AI Type: Analytical AI● Key Concepts: Bias in data sets, privacy protection, recognizing misinformation.● Data Connections: Exploring datasets and their impact on AI outcomes.● Supporting Lessons: Is It Fake? Lesson</div>	<div><h3>Year 7–9: The Ecosystem of Digital Citizenship</h3><p>Nature Analogy: <i>A thriving ecosystem – interdependent connections between AI, ethics, and responsible use emerge.</i></p><ul style="list-style-type: none">● Focus Area: Critical analysis of AI tools, bias identification, and ethical considerations.● AI Type: Analytical AI & Generative AI● Key Concepts: Bias detection, misinformation challenges, responsible AI design.● Data Connections: Analyzing data flows into both analytical and generative AI tools.● Supporting Lessons: Interactive Fact-Checking Lesson</div>
<div><h2>Year 10: Guardians of the Digital Forest</h2><p>Nature Analogy: <i>Tall and resilient trees standing guard – students become informed, critical leaders in AI spaces.</i></p><ul style="list-style-type: none">● Focus Area: Advanced AI integration into real-world problem-solving and ethical frameworks.<ul style="list-style-type: none">● AI Type: Analytical AI & Generative AI● Key Concepts: Ethical AI design, evaluating AI transparency, solving global challenges with AI tools.● Data Connections: Exploring real-world datasets and designing AI systems for ethical outcomes.<ul style="list-style-type: none">● Supporting Lessons: AI Ethical Design Guidelines AI Chatbot Evaluation Activity</div>					

Reception: Discovering AI in Daily Life

Nature Analogy: *Seeds in fertile soil – curiosity and foundational awareness begin to grow.*

- **Focus Area:** Foundational understanding of AI tools.
- **AI Type: Analytical AI**
- **Key Concepts:** Basic AI tools, privacy, patterns.

Lessons:

1. **AI in Everyday Life:** How AI tools like Google Home answer simple questions.
2. **Privacy Basics:** Public vs. private information.

Outdoor Integration: Observing patterns in leaves and animal tracks.

Year 1: Digital Safety Basics

Nature Analogy: *Sprouting curiosity – early AI concepts take root.*

- **Focus Area:** Introduction to AI safety and responsible use.
- **AI Type: Analytical AI**
- **Key Concepts:** Privacy, identifying AI tools, recognizing patterns.

Year 3: Exploring Practical AI Tools

Nature Analogy: *Young saplings – foundations for practical AI applications.*

- **Focus Area:** Practical applications of AI in search engines.
- **AI Type: Analytical AI**
- **Key Concepts:** Search engines, pattern analysis, data basics.

Lessons:

1. **Password Power-Up: Search Engine Secrets:** How search engines use data.
2. **AI and Weather Predictions:** Exploring data insights.

Outdoor Integration: Comparing weather forecasts with real-world observations.

Year 4: Practical AI Applications

Nature Analogy: *Growing branches – deeper exploration of data and AI tools.*

- **Focus Area:** Advanced understanding of AI tools.
- **AI Type: Analytical AI**
- **Key Concepts:** Data flow,

Year 5: Ethical AI Awareness

Nature Analogy: *Branching out – exploring ethics and fairness in AI.*

- **Focus Area:** Ethical AI use and data privacy.
- **AI Type: Analytical AI**
- **Key Concepts:** Privacy, bias, misinformation.

Lessons:

1. **Is It Fake?**
2. **Privacy in AI Tools:** Digital safety principles.
3. **Recognizing Bias:** Identifying bias in datasets.

Outdoor Integration: Fact-checking environmental data.

Year 6: Responsible Digital Citizens

Nature Analogy: *Interconnected branches – advanced responsibility.*

- **Focus Area:** Digital responsibility and data ethics.
- **AI Type: Analytical AI**
- **Key Concepts:** Ethical use, privacy protection.

Lessons:

Year 7: Bias and AI Tools

Nature Analogy: *New branches – exploring fairness and AI decision-making.*

- **Focus Area:** Understanding bias and fairness in AI tools.
- **AI Type: Analytical AI**
- **Key Concepts:** Bias detection, fairness, critical thinking.

Lessons:

1. **Introduction to AI Bias:** Understanding how bias emerges in AI systems.
2. **Exploring Bias in Data:** Analyzing datasets for bias.
3. **Fair AI Practices:** Discussing fairness and equity in AI design.

Outdoor Integration: Comparing balanced and unbalanced ecosystems to biased and unbiased datasets.

Year 8: Misinformation and AI

Nature Analogy: *Thriving ecosystem – exploring the flow of truth in AI outputs.*

Lessons:

1. **Safety First:** Identifying safe ways to use digital tools.
2. **AI Helpers:** Exploring AI systems in smart devices.
3. **Patterns in AI:** How AI detects and uses patterns.

Outdoor Integration: Comparing patterns in flowers and leaves.

Year 2: Building AI Literacy

Nature Analogy: *Stronger roots – early understanding of AI tools.*

- **Focus Area:** Early AI literacy and digital safety.
- **AI Type:** Analytical AI
- **Key Concepts:** Recognizing AI, basic safety rules, data awareness.

Lessons:

1. **Recognizing AI Tools:** How AI shows up in daily life.
2. **Staying Safe with AI:** Privacy basics and user safety.
3. **Understanding AI Responses:** Exploring how AI gives answers.

Outdoor Integration: Comparing AI predictions with natural patterns.

ethics, analysis.

Lessons:

1. **AI in Search Tools:** Understanding search result rankings.
2. **Digital Responsibility:** How to use AI tools safely.
3. **Exploring Data Patterns:** Recognizing AI-driven insights.

Outdoor Integration: Comparing digital data patterns with ecosystems.

1. Understanding Data Flow:

- How data impacts AI outcomes.
2. **Safety Online:** Keeping digital footprints safe.
3. **Ethics in AI Use:** Evaluating responsible AI design.

Outdoor Integration: Exploring environmental AI monitoring tools.

- **Focus Area:** Identifying misinformation and critical evaluation of AI outputs.
- **AI Type:** Analytical & Generative AI
- **Key Concepts:** Truth verification, bias detection, misinformation.

Lessons:

1. **Interactive Fact-Checking Activity**
2. **Exploring AI Misinformation:**
Identifying false AI outputs.
3. **Responsible Use of AI Tools:** Ethical AI engagement.

Outdoor Integration: Fact-checking AI predictions against real-world environmental data.

Year 9: Ethical AI Projects

Nature Analogy: *Interwoven branches – applying ethical principles to real-world AI tools.*

- **Focus Area:** Developing ethical AI applications.
- **AI Type:** Analytical & Generative AI
- **Key Concepts:** Problem-solving, ethics, fairness.

				<div>Lessons:</div> <div><div>1. Bias in AI Outputs:</div><div>Identifying unfair AI conclusions.</div></div> <div><div>2. Ethical AI Challenges:</div><div>Case studies in AI design.</div></div> <div><div>3. AI Design Project:</div><div>Proposing solutions for fair AI use.</div></div> <div>Outdoor Integration: Comparing AI-driven environmental tools with traditional methods.</div> <div><div><div></div>Year 10: Leadership in AI</div></div> <div>Nature Analogy: <i>Guardians of the forest – leading ethical AI innovations.</i></div> <div><div><div>● Focus Area:</div><div>Real-world AI solutions and leadership in ethical design.</div></div><div><div>● AI Type: Analytical & Generative AI</div></div><div><div>● Key Concepts:</div><div>Transparency, ethical design, global problem-solving.</div></div></div> <div>Lessons:</div> <div><div>1. AI Ethical Design</div><div>Guidelines: Guidelines Resource</div></div> <div><div>2. Evaluating AI Tools:</div><div>Ethical assessment frameworks.</div></div>
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					<div>3. Global AI Project: Designing AI solutions for environmental or social issues.</div> <div>Outdoor Integration: Exploring AI in wildlife conservation projects.</div>
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Supporting Documents and Resources

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- Interactive Fact-Checking Activity (Year 7–9): [Lesson Link](#)
- AI Ethical Design Guidelines (Year 10): Guidelines Resource
- AI Chatbot Evaluation Activity (Year 10): Evaluation Resource
- [Part 1: Privacy - Year 7](#)
- [Lesson 1: Privacy Threats Brainstorming](#)
- [Lesson 2: Legal and Ethical Debate](#)
- [Lesson 3: Privacy Best Practices Poster](#)
- [Part 2: Misinformation - Year 8](#)
- [Lesson 1 - Interactive Fact-Checking Activity](#)
- [Lesson 2 - Misinformation Simulation](#)
- [Lesson 3: Ethical Design Guidelines](#)
- [Part 3: Bias - Year 9](#)
- [Lesson 1: Introduction to AI Chatbot Bias](#)
- [Lesson 2: Data Analysis Activities](#)
- [Assessments](#)
- [Formative Assessment:](#)
- [Summative Assessment](#)



Additional Supporting Links:

- [Australian eSafety Commissioner Resources](#)
- [ISTE AI Standards for Education](#)
- [AI Literacy Resources by Digital Promise](#)



Introduction of Analytical and Generative AI Across Cohorts

Cohort	Focus Area	AI Type	Key Concepts
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Reception	Foundational Awareness	Analytical AI	Patterns, basic AI tools, privacy
Year 1	Basic Digital Safety	Analytical AI	Privacy, digital tools, patterns
Year 2	Early AI Literacy	Analytical AI	AI recognition, safety rules
Year 3	Practical AI Use	Analytical AI	Search engines, data patterns
Year 4	Applied AI Concepts	Analytical AI	Data flow, basic digital ethics
Year 5	Ethical AI Awareness	Analytical AI	Privacy, misinformation, bias
Year 6	Digital Responsibility	Analytical AI	Data privacy, ethics, awareness
Year 7	Bias and AI Tools	Analytical AI	Bias detection, fairness
Year 8	Misinformation & AI	Analytical & Generative AI	Truth, verification tools
Year 9	Ethical AI Projects	Analytical & Generative AI	Problem-solving, ethics
Year 10	Leadership in AI	Analytical & Generative AI	Real-world AI solutions, design ethics



