

Draft SD71 AI Learning Framework

This is not official and is in a very early stage.

(This is a working copy - Shannon Hagen and Kara Dawson)

Grade Group	AI Foundations	Machine Minds – How AI Learns	Ethics & Responsibility	Global Impacts of AI	Living with AI
K-2	<ul style="list-style-type: none"> • What is AI? • AI is made by humans. • Natural vs Artificial • AI has no emotions. • Five senses vs AI inputs. 	<ul style="list-style-type: none"> • What is a machine? • Machines notice patterns and make predictions • Sorting data and grouping • Computers follow instructions called algorithms 	<ul style="list-style-type: none"> • Be kind, safe, and school smart when using AI. 	<ul style="list-style-type: none"> • AI helps people. • Everyday examples. 	<ul style="list-style-type: none"> • Keeping a balance • Recognize unsafe online situations. • If something comes up that makes you uncomfortable speak to a trusted adult • Do not share private information
3-5	<ul style="list-style-type: none"> • Define AI (terms broken down) • What is intelligence • Senses/perceptions • Understand what AI is useful for and identify types • Intro to prompting. 	<ul style="list-style-type: none"> • Definition of Machine learning • Machines learn from humans using data and patterns • AI uses data to make choices. • Algorithms 	<ul style="list-style-type: none"> • Intro to bias. • Introduction to ethics • Respect people’s original work. • Trust and transparency when using AI (academic integrity) 	<ul style="list-style-type: none"> • How can AI be harmful • Explore AI in society and media. • Introduction to the Environmental impact of AI (use words like AI’s Carbon Footprint) • Sustainability 	<ul style="list-style-type: none"> • Everything that you see online is not true • Keeping a balance. • Use AI to help you learn not do your learning • Using AI safely and responsibly
6-8	<ul style="list-style-type: none"> • Characteristics of Generative AI. • Benefits and drawbacks • Real world examples • Refine prompting. • Decide when to use AI for school. 	<ul style="list-style-type: none"> • Machine learning and training the machine • Large Language Models • Hallucinations, misinformation and bias caused by data input 	<ul style="list-style-type: none"> • Deeper exploration of ethics in AI • Deeper exploration of bias • Plagiarism, copyright and citing sources • Responsible use. • Academic Integrity 	<ul style="list-style-type: none"> • Environmental concerns around AI-immediate and long term • Effects of AI on the economy (materials) • AI in jobs and workplaces. • AI and creativity in terms of repetition of what we see 	<ul style="list-style-type: none"> • Science of learning and how AI affects learning. • Limits of chatbots (mental health, health, relationships, advice) • AI and mental health (depression, addiction, losing your confidence) • Overreliance on AI • Safety-Deepfakes and self-protection
9-12	<ul style="list-style-type: none"> • Reactive, predictive and generative AI • Evaluate strengths and limits of AI. • Design effective prompts. • Best practice (verifying sources, improving results) • Using AI in education (focused ed secondary slide 10) 	<ul style="list-style-type: none"> • AI accuracy and bias. • Evaluate misinformation risks. • Neural networks 	<ul style="list-style-type: none"> • Academic Integrity • Ethics and using AI in the real world • Ethics of AI creation and use • Understanding intellectual property. • Citing 	<ul style="list-style-type: none"> • Societal impact of AI Bias and distrust of information • AI in job creation and extinction (Focused Ed Lesson 7) • Economic impact • Impact of AI on the Future-positive and negative • AI Slop 	<ul style="list-style-type: none"> • Deepfakes and safety. • Originality vs reliance on AI • Wellbeing and balance. • Degradation of trust and respect • Creativity in the age of AI