Navigating AI in Education

DPAC 2026 Edition

SD46

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Predictive AI

Predictive AI uses historical data and statistical algorithms to identify patterns and make informed predictions about future events or behaviors.
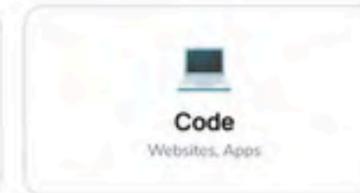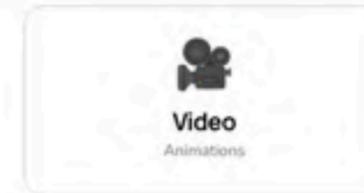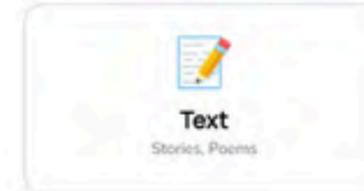
Its primary goal is to look at what has happened in the past to forecast what is likely to happen next.

It does not create anything new but rather provides insights based on existing information.

*Generative AI

Text	Image
Stories, Poems	Art, Photos
Video	Code
Animations	Websites, Apps
Music	

Generative AI is designed to create new content.

It learns the underlying patterns and structures of large datasets to generate novel outputs that are similar in style but not identical to the data it was trained on.
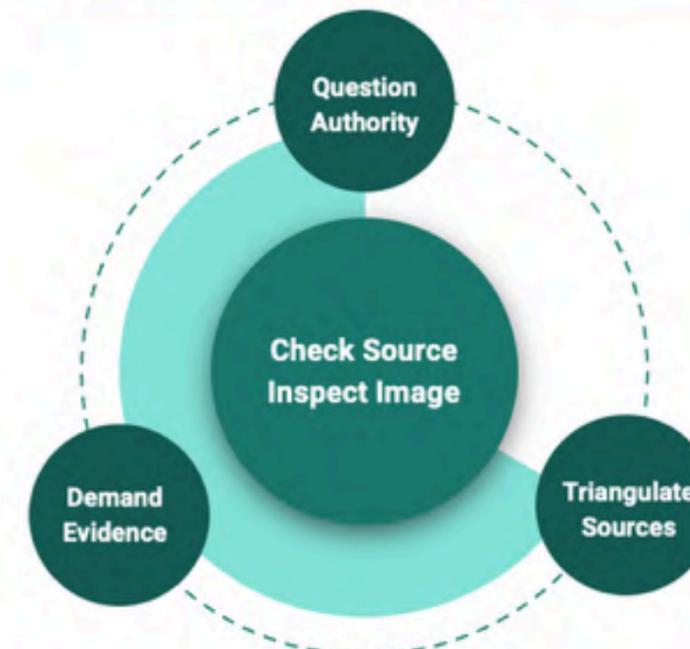
Data Sets

Recognizing that AI is only as good as the information it was fed.

"Data Sets" are like "textbooks" and a snapshot of info that AI uses to learn.
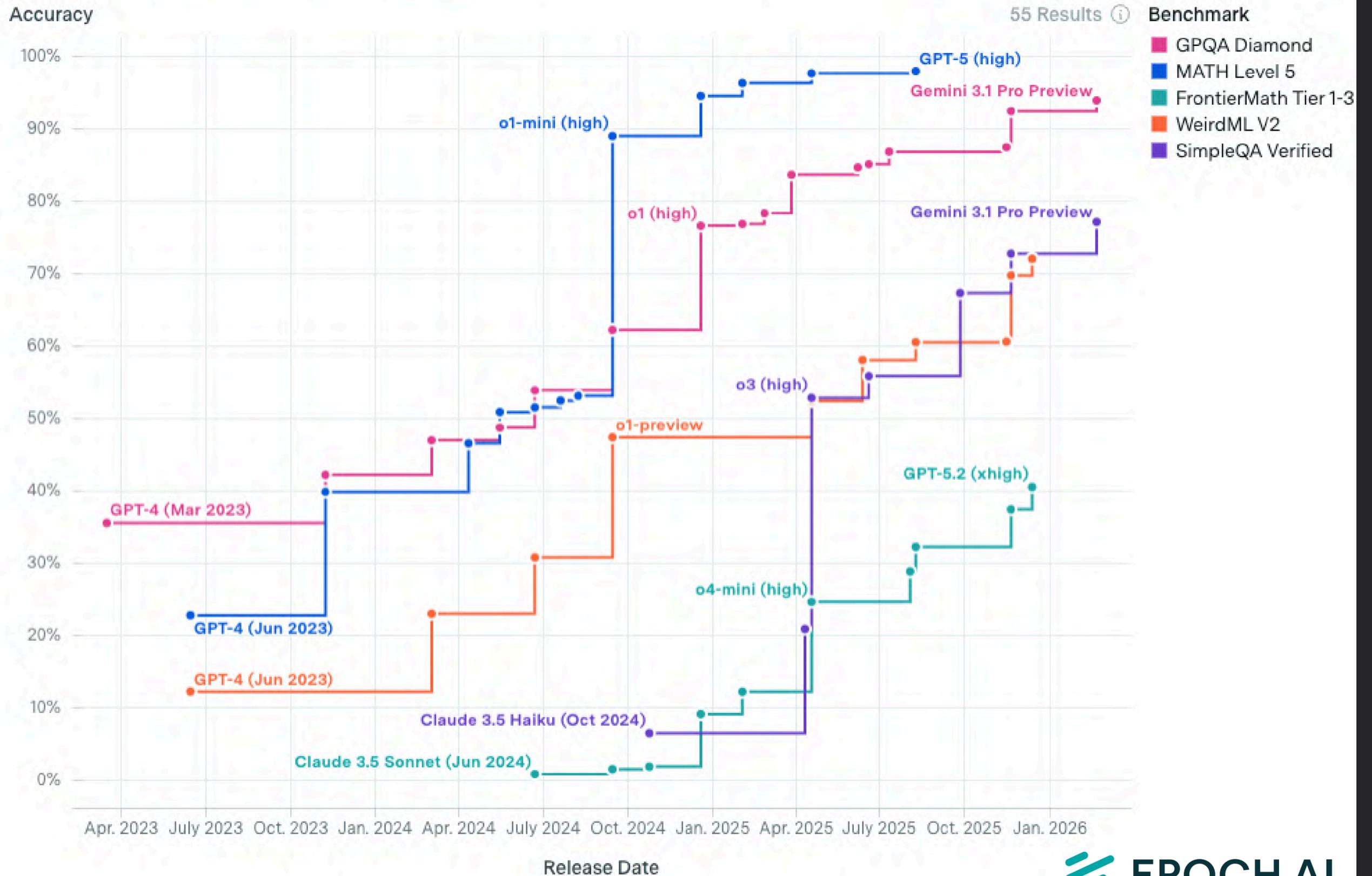
This Information can be **Biased**

Thinking Like a Scientist

Question Authority

Check Source Inspect Image

Demand Evidence

Triangulate Sources

AI is changing RAPIDLY

Frontier performance across benchmarks

Current model is GPT 5.2
- free version limits number & depth of query
- mini - main - nano "modes"
- Open AI

Accuracy · 55 Results ⓘ

Benchmark
- GPQA Diamond
- MATH Level 5
- FrontierMath Tier 1-3
- WeirdML V2
- SimpleQA Verified

Labeled data points: GPT-5 (high), Gemini 3.1 Pro Preview, o1-mini (high), o1 (high), Gemini 3.1 Pro Preview, o3 (high), o1-preview, GPT-4 (Mar 2023), GPT-5.2 (xhigh), GPT-4 (Jun 2023), o4-mini (high), GPT-4 (Jun 2023), Claude 3.5 Haiku (Oct 2024), Claude 3.5 Sonnet (Jun 2024)

Release Date: Apr. 2023 — Jan. 2026

EPOCH AI

DID YOU KNOW ...

* Canadian children aged 5-17 spend an average of about 3.0 - 4.8 hours per day on recreational screen time, which includes activities like watching TV, playing video games, and using computers or mobile devices.

83% of Canadian students in grades 4-11 own a mobile device

80% of kids said they rarely or never have an adult in the room when online

* This does not included educational time

Carol Todd, Supportive Technologies and Digital Literacy (Citizenship)
SD 43 Coquitlam

The Internet Minute: 2025

EVERY MINUTE OF THE DAY
PRESENTED BY DOMO

GOOGLE AI'S GEMINI RECEIVES **8,574** VISITORS

TIKTOK USERS UPLOAD **16,000** VIDEOS

NETFLIX SUBSCRIBERS STREAMED **362,962** HOURS

PEOPLE DO **5.9M GOOGLE** SEARCHES

SIRI ANSWERS **1,041,666** QUESTIONS

18.8M TEXT MESSAGES SENT

TRAVELERS BOOK **852 AIRBNB** STAYS

3,472,222 YOUTUBE VIDEO VIEWS

4,080 RECORDS COMPROMISED IN DATA BREACHES

138.9M REELS PLAYED ON **FACEBOOK + INSTAGRAM**

FORTNITE USERS WATCH **1,563 HOURS** OF LIVE STREAMS

251.1M EMAILS SENT

1.04M MESSAGES SENT ON **SLACK**

9,000 MEMBERS APPLY FOR JOBS ON **LINKEDIN**

DOORDASH DINERS PLACE **$126,763** IN ORDERS

AMERICANS TAKE **1,151,176,000** STEPS

288 PEOPLE DOWNLOAD **ZOOM**

CYBER WEEK SHOPPERS SPENT **$43.6M** GLOBALLY

SNAPCHAT USERS SEND **3.3M** SNAPS

229M MEETING MINUTES RECORDED ON **MSFT TEAMS**

Considerations for Using AI Tools in K-12 Schools

"AI tools should be used as a complement to **human processes**, not a replacement…AI should enhance rather than replace key elements of teaching and learning"

- AI literacy needs to be developed in all district employees

- Student and caregiver ethical concerns need to be addressed/honoured

- Prioritize the use of tools already incorporating accessibility (including multilingual) and UDL

School District 46
AI Learning & Implementation Framework

Step 1

- Ministry Guidelines released
- BC Digital Learning Symposium
- Elementary & Secondary Ed Leaders begin engaging with Ai
- AI Summit with SD48 - Sea to Sky

Spring - Summer 2024
AWARENESS

Step 2

- Team at IT4K12 Conference
- Book Creator Pilot Project
- Educators Day - 4 Pro-D Workshops
- Ed. Leadership work with Supt. Chris Kennedy (SD 45)
- Conversations with MagicSchool/School AI

Fall - Winter 2025
EXPLORATION

Core Values in AI: Learning, Integrity, Equity, Belonging

Step 3

ALIGNMENT
Spring - Fall 2025

- Co-creation of District Foundation documents
- Begin Transition to Microsoft tools
- Focus Group - Canadian K-12 Summit & Literature review
- SAMR Framework incorporated
- PAC & Board Presentations
- Local PD

Step 4

IMPLEMENTATION
Late 2025 - 2026

- District wide collaboration opportunities
- PAC/DPAC & Family Events
- Student Voice & Leadership events
- Co-pilot 13+ for students
- Continual review of Foundation Docs
- PD for staff

Contact Us:
questions@sd46.bc.ca
604-886-8811

Updated November 2025
Sunshine Coast School District
sd46.bc.ca
494 South Fletcher Rd.
Gibsons, B.C. V0N 1V0

School District 46
AI Learning & Implementation Framework - Additional Notes

AWARENESS

- April 2024 Ministry Considerations for Using AI Tools in K-12 & Digital Learning Symposium
- May 2024 – Ed leadership Introduction to AI for Elementary and Secondary
- August 2024 – SD46 Leadership Team AI Summit with Sea to Sky SD48

EXPLORATION

- November 2024 IT4K12 Conference
- January 2025 Book Creator with AI tools District Pilot
- January 2025 Read & Write incorporates AI tools for word prediction and text to speech - accessibility for all
- February 2025 – District Educators Day – AI Sessions (4) by Cari Wilson & Pam Kaatz – staff encouraged to explore educationally based tools: MagicSchool, SchoolAI, Khanmigo, & Copilot
- Ed Leadership worked with Supt. Chris Kennedy, West Vancouver
- Discussions with MagicSchool AI and SchoolAI

ALIGNMENT

- Spring 2025 – Co-creation of Foundation Documents: Core Values & Guiding Principles for AI; Teacher Guidelines for the Use of AI; Student Guidelines for the Use of AI. DLT, TETT, DTC, DSLT
- Spring 2025 – Staff begin transition to Microsoft Office - includes AI based tools: Co-pilot, Learning Accelerators, Immersive Reader & Accessibility
- Fall 2025 – SD46 Delegation to Canadian K-12 GenAI School Leadership Summit & Coast Metro AI Summit, Coast Metro Ed Tech Meet Up
- Focus Group – Book Study AI Optimism
- Oct PD 2025 – local AI workshops
- SAMR Framework with DTC & TETT
- Nov 2025 IT4K12 Conference
- Nov PAC Presentations begin & Foundation Documents delivered to schools

IMPLEMENTATION

- Finish PAC/DPAC Presentations
- Committee Day explorations
- Dec 2025 – District-wide AI Teaching and Learning Collaboration Sessions
- Spring - Family Webinar
- Student Voice - DSLT & School-based
- Co-pilot 13+ enabled for students
- Explore student education event
- Possible adoption of education focused AI tool & Canva for Education
- On-going review of Foundation Documents
- Build Secondary Teacher technology education network (like TETT)

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Core Values & Guiding Principles for AI*

We are committed to ensuring that any AI systems we use are reliable, accurate, and effective in enhancing both education and administration.

LEARNING

Ensuring High-Quality AI

We adopt AI technology that:

- supports learning
- encourages innovation
- fosters creative and critical thinking skills
- protects privacy

BELONGING

Encouraging Collaboration and Well-Being in AI

We actively engage students, parents, educators, and community members in AI discussions and decisions.

AI use should be strategic: enhancing learning and supporting well-being. AI could facilitate group work, reduce administrative tasks, and personalize and differentiate activities. This allows staff to spend more time connecting directly with learners.

INTEGRITY

Ensuring Transparency and Ethical Use of AI

We are accountable for how AI is used, ensuring transparency in data collection, decision-making, and implementation.

AI users will follow ethical standards and maintain trust to ensure its use is effective and enriching for our entire learning community.

EQUITY

Promoting Fairness and Inclusion in AI

We ensure AI tools provide equal opportunities for all students, reflect our community's diversity, and prevent bias or discrimination.

Learning with AI should be meaningful and relevant, prepare students for future challenges, and support the differentiation of instruction for all.

* Current "AI" technologies used are actually LLMs - Large Language Models

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TEACHERS GUIDELINES FOR THE USE OF AI

Modeling Professional and Responsible Use

Protect Privacy
Avoid entering personal or sensitive information into AI tools.

Stay Informed
AI tools can be biased or inaccurate—always verify the information.

District-Approved
Use tools designed for education and recommended by SD46: Microsoft Copilot, SchoolAI, Khanmigo, MagicSchool

Model Best Practices
Use triangulation of assessments to verify authentic student learning

Lead with Integrity
Be transparent and ethical in how you use AI in your practice.

Support Student Learning
Use AI to enhance, not replace, meaningful teaching and learning.

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STUDENT GUIDELINES FOR THE USE OF AI

Ensuring Safety and Privacy, Empowering Growth

Protect Privacy
Protect your privacy – do not enter any personal or private information into the AI tools.

Check Information
Remember that AI tools can produce biased or inaccurate information. Check for it.

District-Approved
Use district-approved AI tools designed for education in a way that is consistent with school expectations.

Teacher's Guidelines
Follow your teachers' guidelines on when and how to use AI to support your learning.

Academic Integrity
Maintain your academic integrity – if you use AI tools to help you, make sure you say so.

Support your Learning
Use AI tools to support your learning and understanding, not to do the work for you.

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These tools are "Closed Systems" which mean they do not train the LLM model.

Our District Co-pilot license has enterprise-grade security and enhanced data protection.

Any student work submitted to AI must be on one these approved tools and meets privacy legislation - not include any personally identifiable information.

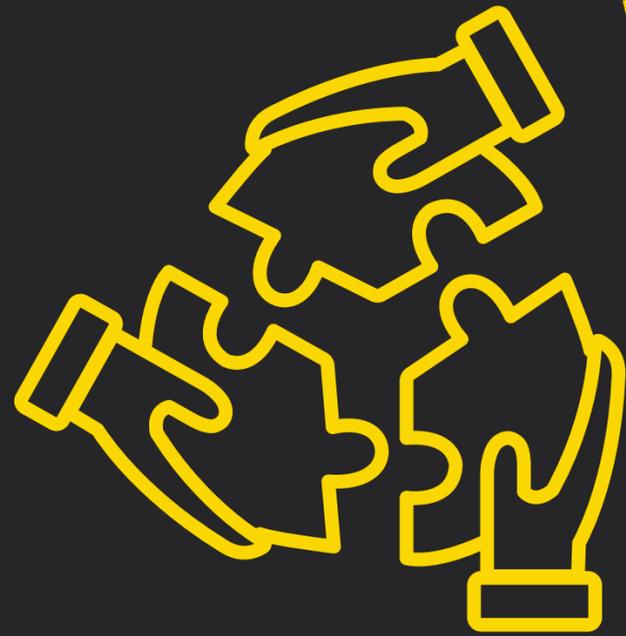Any assessment must be human centered - and professionally accountable

IMPLEMENTATION

Late 2025 - 2026

- District wide collaboration opportunities
- PAC/DPAC & Family Events
- Student Voice & Leadership events
- Co-pilot 13+ for students
- Continual review of Foundation Docs
- PD for staff

step 4

- **District Level**
  - **Ed Leadership Group**
  - **District Technology Committe**
  - **TETT (Teacher Tech group)**
  - **Learning & Innovation**
  - **ISTs**
  - **Teacher Librarians**

- **Coast Metro Districts**
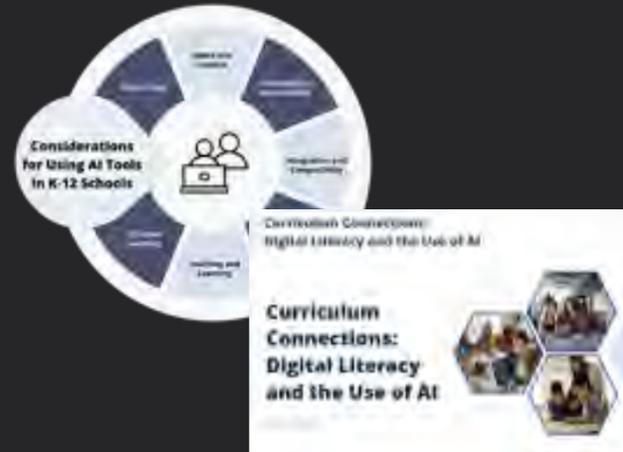
- **Provincially, Nationally, & beyond**
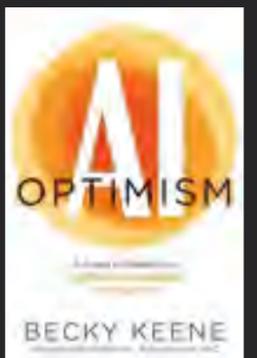
AI Teaching & Learning in SD46
Collaborative Sessions Feedback Summary

Benefits of AI

- Instructional planning
- Template creation
- Lesson differentiation
- Idea generation/restructuring
- Review/Feedback Coach
- Personalization of learning
- Accessibility
  - voice it
  - translation
  - reading level

Common Ground

- Need for clear direction for AI use in schools
- Support & time for professional learning
- Sound pedagogy needs to lead the way
- Core competencies must be held up & reinforced
- Any AI use must be intentional and modelled
- Keep Families in the loop

Concerns about AI

- Academic integrity
- Skill erosion
  - thinking
  - writing
  - researching
- Bias/Errors within AI
- Ethical concerns related to
  - Environment
  - Social Responsibility
  - Professionalism
  - Rights - Creative & Intellectual

- **Humans in the loop**

Your Students Are Already Using It: The West Vancouver Story and What Comes Next — Chris Kennedy
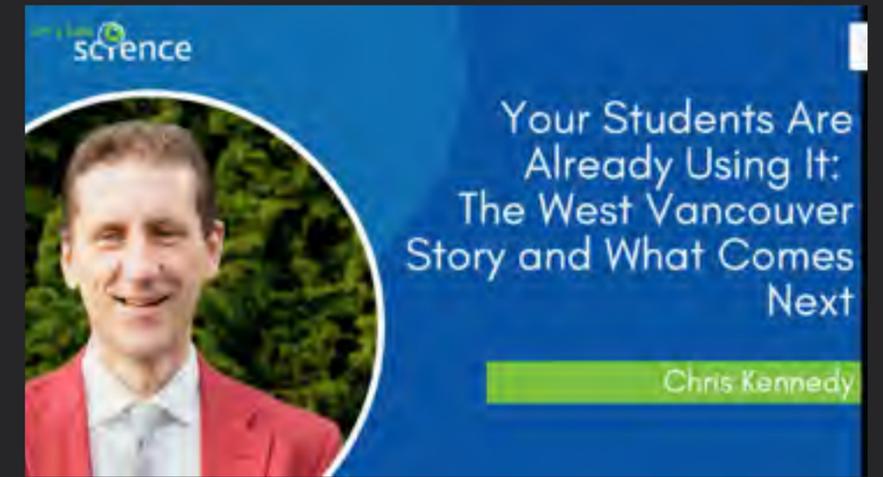
"And so the equity question we get to is not just about access to the (AI) tool. It's about access to the guide. As adults who teach intentional use versus kids who are left to figure it out alone… we have to make sure that every kid has access to the thoughtful adults around them that are helping guide their thinking, so kids aren't left to just figure it out on their own."

- **Humans in the loop**

- **Spot the learning, not the AI**

- **AI without sound pedagogy has a negative effect on learning**

- **"If you want it; teach it. Transfer is the goal, it can't be assumed."**

  Tom Schimmer

- **Fact checked data is a must: Environmental effect**
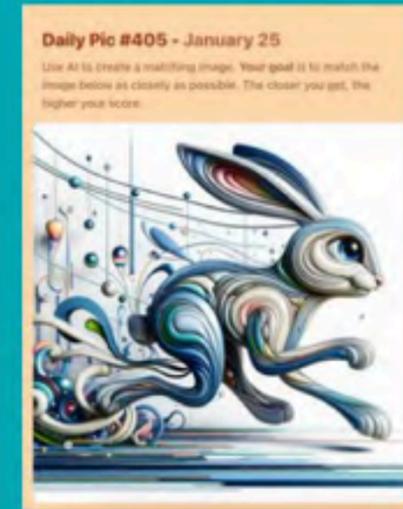
The water footprint of AI and data centers: room for improvement

A recent study from 2025, published in the journal *Patterns* by Alex de Vries-Gao, specifically examined the environmental impact of AI systems. The study shows that AI systems are estimated to have consumed around **765 billion liters of water** in 2025, an amount greater than the **total global consumption of bottled water in that same year.**

Ekopak

omni CALCULATOR

The awesome
AI Water Footprint Calculator

one of **3822 super useful tools** at omnicalculator.com

Check out now →

Select an **AI model** to analyse, the average **number of queries** per day per user, and the **number of users** to see how much **water** and **energy** AI usage consumes.

Choose an AI model ⋯

ChatGPT (OpenAI) ⌄

Number of queries per day ⓘ ⋯

1

Calculate the AI footprint for… ⋯

● just you (1 user)

○ a small business (10 users)

○ a corporation (4000 users)

○ all AI users (500,000,000 users)

💧 **Water footprint**

Average water usage per query ⋯

37.81   ml ⌄

Total water usage per day ⋯

37.81   ml ⌄

Over a **year**, that's the same as:

- 🚿 **0.15** showers (10 minutes each);
- 💧 **28** bottles of water (500ml); or
- 🚽 **2.3** toilet flushes.

⚡ **Energy footprint**

Average energy usage per query ⋯
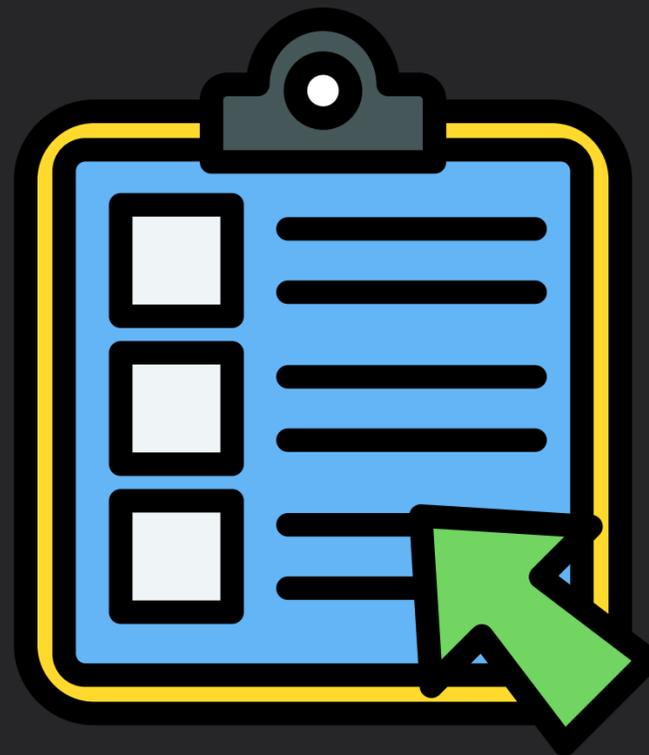
10.24   Wh ⌄

Total energy usage per day ⋯

10.24   Wh ⌄

Over a **year**, that's the same as:

- ☕ Boiling **34** kettles;
- 📱 Charging **213.7** smartphones; or
- 📺 Watching TV for **37.4** hours.

ACTION ITEMS

Coastline Sharepoint - Technology for Learning

On going Professional Development Opportunities - next opportunity is Educators Day in May

Pilot Program: Trailblazers

Indigenous Protocol

On going Guidelines & Resource review

STUDENTS

▶ DSLT

▶ Spring Student Forum

▶ NEW: Cyber Savvy Explorations Course - Gr 8
  - Accessibility Tools
  - Mind Matters On-Line
  - Digital Smarts
  - Cyber Security
  - STEM/Robotics

▶ Grade 8 -12 Orientation

▶ January of Grade 9 - Co-Pilot 13

▶ On going student voice/information PSA

▶ **DPAC & PACs Presentations & regular touchbacks**

▶ **Family Information Webinars**

▶ **Resources on District Website**

▶ **Regular Cyber/Media Tips thru Social Media**

thank you!