Scoping the integration of AI in adult tertiary education: An equitable and outcome-focused approach in Aotearoa New Zealand

Volume 2

Practical AI applications for educators

Strategies and tools for teaching and leadership

By Graeme Smith and Michael Grawe

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Ako Aotearoa

The authors

Graeme Smith
https://www.linkedin.com/in/graeme-smith-thisisgraeme/

Michael Grawe
https://www.linkedin.com/in/mgrawe/

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1 | Introduction

"This guide ... equips educators, leaders, and policymakers with practical strategies for integrating AI into teaching and administration." (pg. 5)

Introduction to the research project

The "AI in Education" project is an initiative dedicated to exploring how artificial intelligence (AI) technologies can enhance adult tertiary education. The project focuses on post-secondary institutions in Aotearoa New Zealand, including Private Training Establishments (PTEs), Institutes of Technology and Polytechnics (ITPs), and universities.

The primary goal of this research is to understand how AI can improve learning experiences, support educators, and foster better student outcomes. Key areas of focus include:

— Leveraging AI to personalise learning for individual students.

— Providing tools that streamline educators' tasks, such as lesson planning, assessment, and feedback.

The findings, grounded in 2024 research, draw on trials with AI tools, surveys, and interviews with educators. These insights reveal both the opportunities and challenges of integrating AI into tertiary education settings (Smith & Grawe, 2024a; Smith & Grawe, 2024b).

Although this project centres on adult learners, many strategies explored are adaptable to other educational contexts, including primary, secondary, and community education, reflecting AI's potential to address diverse learning needs.

For a detailed exploration of the literature review, survey findings, expert insights, and Māori and Pacific perspectives, refer to *Volume 1: AI Insights for Educators,* which lays the theoretical groundwork. In contrast, *Volume 2: Practical AI Applications for Educators* provides real, hands-on guidance for integrating AI tools into teaching and learning practices.

> This project was supported by Ako Aotearoa through the Ako Aotearoa Research and Innovation Agenda (AARIA). We acknowledge and appreciate the strategic investment made by Ako Aotearoa in advancing equity, innovation, and excellence in tertiary education across Aotearoa New Zealand.

Introduction to Volume 2 of this guide for educators

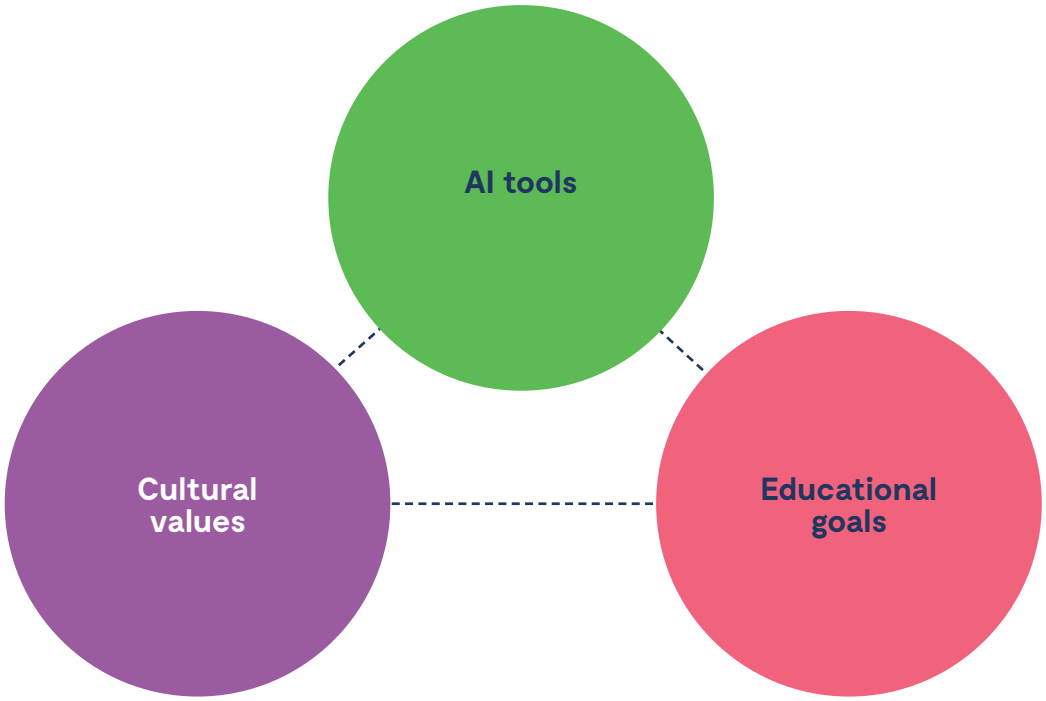
This guide, the second in a two-part series, equips educators, leaders, and policymakers with practical strategies for integrating AI into teaching and administration. *Volume 2: Practical AI Applications for Educators* builds on the foundational insights of Volume 1, shifting from a theoretical understanding of AI's potential to actionable steps for implementation. Within these pages, educators will find tools, approaches, and step-by-step guidance to support the effective and ethical use of AI in classrooms and beyond.

Recent advancements in AI – especially generative tools like ChatGPT, Microsoft CoPilot, and AI for images and video – have sparked widespread interest in their ability to enrich educational practices. While Volume 1 explored the broader implications of these technologies, Volume 2 translates these ideas into concrete applications. This guide aims to demystify AI, offering practical strategies for personalised learning, student engagement, and administrative efficiency.

While this volume focuses on the practical use of AI tools, it is important to recognise that these systems have limitations. Generative AI can produce inaccurate or misleading outputs (so-called "hallucinations") and may reinforce biases present in the data it was trained on. Educators should use AI with critical awareness, treating outputs as suggestions rather than truths, and always applying their own professional judgement.

In keeping with Aotearoa New Zealand's commitment to cultural responsiveness, this guide integrates a framework that encourages educators to tinker with AI – to explore, experiment, and learn through play. This hands-on, exploratory approach respects Māori and Pacific cultural values, fostering a safe and supportive environment for curiosity and creativity. By embedding this framework into real-world applications, the guide supports educators in developing culturally inclusive practices which celebrate diversity and uphold ethical standards.

Cultural responsiveness framework



Preview of what is covered here

This guide provides practical, actionable strategies for integrating AI into educational practice, building on the theoretical foundations laid out in **Volume 1.** Organised into four main sections, **Volume 2** translates these concepts into hands-on applications and culturally responsive approaches. An overview of what is covered:

1. How to get started: A guide for educators

This section supports educators in taking their first steps with AI, focusing on overcoming hesitancy and building familiarity:

— **AI Hesitancy and Confidence-Building:** Practical strategies to address common concerns and help educators feel comfortable with AI tools.

— **Setting Up ChatGPT:** Step-by-step guidance for configuring ChatGPT and setting foundational preferences for educational use.

— **Encouraging AI Tinkering & Collaboration:** An introduction to an exploratory tinkering framework that respects **Māori** and **Pacific values**, fostering a safe environment for experimentation.

2. Designing personalised learning with ChatGPT

This section explores how ChatGPT can be used to create tailored learning experiences for students:

— **ChatGPT as a Personal Tutor:** Techniques to support individualised learning pathways, adapting content to meet diverse student needs.

— **ChatGPT as a Digital Teaching Assistant:** Practical uses for ChatGPT in generating prompts, providing feedback, and fostering engagement.

— **Five-Step Process for Personalised Education Programmes:** A structured approach to designing personalised learning plans with ChatGPT.

3. Exploring other generative AI tools

Beyond ChatGPT, this section introduces various generative AI tools for multimedia applications in education:

— **AI for Images and Video:** Tools for creating visual content like lesson materials, presentations, and student projects.

— **AI for Music and Text:** Applications for generating music and text, enhancing creative and interactive learning experiences.

— **Integrating AI Across Learning Modalities:** Strategies to combine different types of generative AI to engage diverse learning preferences and support differentiated instruction.

4. Where to from here?

This final section offers a forward-looking perspective on AI's role in education:

— **Recap of Key Strategies:** A summary of the main takeaways to reinforce actionable insights.

— **Future Directions in AI Integration:** A look at emerging trends and opportunities in AI for education.

— **Encouraging Ongoing Exploration:** Inspiring educators to continue experimenting and adapting as AI evolves, fostering a culture of innovation.

2 | How to get started: A guide for educators

"Creating a safe-to-fail environment where educators and students explore AI together can foster collective confidence, making AI integration a shared learning journey." (pg. 12)

As AI tools become increasingly integrated into educational settings, many educators may feel hesitant or uncertain about adopting these new technologies. Concerns around data privacy, technical skills, and the potential impact on the human aspects of teaching often contribute to this hesitancy. Chapter two addresses these challenges by offering practical strategies to help educators build confidence through transparent exploration, playful experimentation, and personalised adjustments. Additionally, it highlights the benefits of AI in enhancing teaching and learning, demonstrating how these tools can complement and support existing educational practices.

Dealing with AI hesitancy

Despite the rapid emergence of AI tools, many educators remain hesitant or unsure about how to engage with them. Concerns range from a lack of technical confidence to deeper ethical and pedagogical uncertainties. Some feel overwhelmed by the speed of change, while others are sceptical of the hype surrounding AI in education. Addressing this hesitancy requires empathetic leadership, time for exploration, and accessible professional development that meets educators where they are.

Understanding the roots of AI hesitancy

AI hesitancy is common and arises from a variety of concerns, including:

— **Privacy and Security:** Educators often worry about how AI systems manage sensitive data, particularly student information.

— **Fear of Replacing Human Roles:** There is apprehension that AI may undermine the personal connections educators build with students, eroding the human element in teaching.

— **Lack of Technical Confidence:** The perception that AI requires advanced technical skills can discourage educators from exploring its potential applications in the classroom.

— **Ethical and Cultural Sensitivity:** Concerns about AI's ability to respect and reflect cultural contexts – particularly for Māori and Pacific learners – can lead to hesitation, as educators may fear unintentionally introducing tools that clash with cultural values.

These concerns are valid and need to be addressed to ensure AI becomes a supportive addition to educators' toolkits, rather than an intimidating or disruptive force.

Building confidence and trust in AI Tools

Addressing AI hesitancy begins with helping educators understand the basics of AI and fostering a supportive environment for exploration. By focusing on transparency and customisation, educators can build the trust and confidence needed to experiment effectively with AI tools.

Transparency: Understanding how AI works

Clear explanations of how AI systems operate, particularly in terms of data handling and privacy, are key to reducing hesitancy. For instance, educators should know that most AI tools, including ChatGPT, do not permanently store personal data when used appropriately.

— **Explaining AI Fundamentals:** Providing educators with an accessible understanding of AI processes, such as how data is processed and managed, can ease privacy concerns. (A detailed overview of AI fundamentals is included later in this chapter.)

— **Highlighting Data Privacy Protections:** Reassuring educators that privacy is a key component of AI tools, such as ChatGPT, builds confidence in using these technologies.

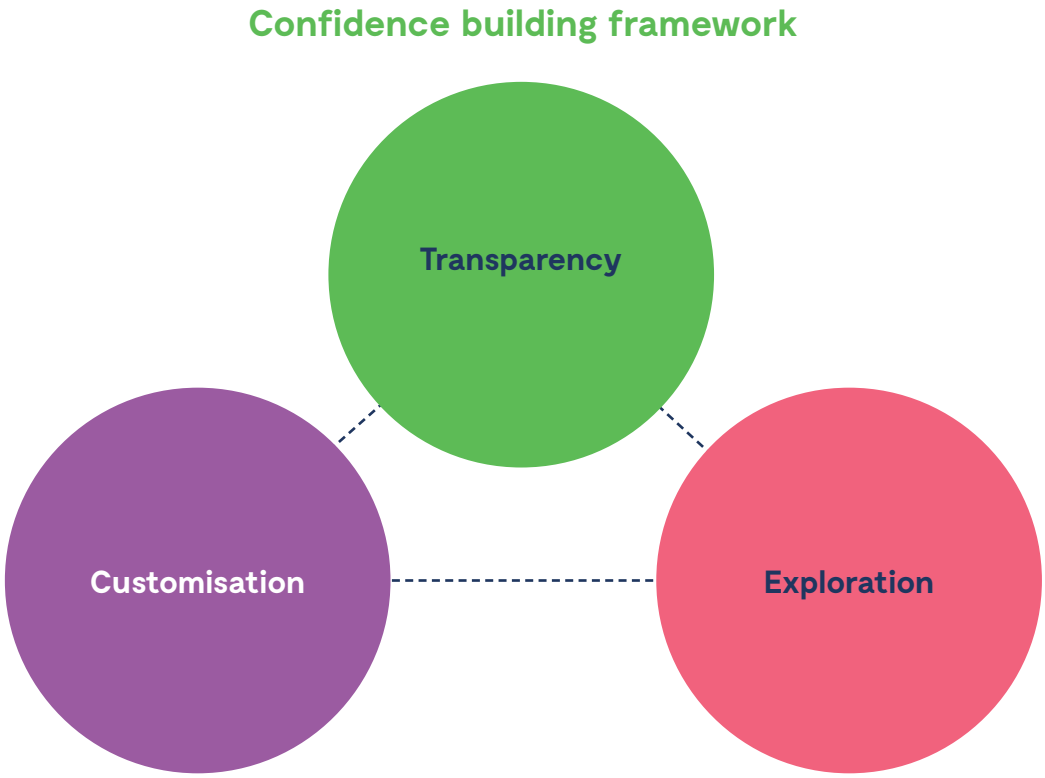
Customisation as empowerment

Encouraging educators to customise AI tools to align with their teaching values and classroom needs positions them as active participants in AI integration.

— **Adjusting AI Settings:** Educators can modify response tone, cultural sensitivity, and subject focus, tailoring the AI to fit their specific goals.

— **Practical Examples:** An educator teaching a culturally diverse group can, for example, configure ChatGPT to reflect cultural nuances, enhancing engagement and inclusivity. (A detailed guide on personalising ChatGPT is provided later in this chapter.)

By combining understanding with control, this approach ensures educators feel supported and in charge of how AI tools function in their classrooms. Trust grows when educators realise they retain control over key settings, making AI a more approachable and adaptable resource.



Playful exploration and tinkering

Encouraging a low-pressure, playful approach to AI experimentation helps educators explore these tools without fear of mistakes. This tinkering approach aligns with Smith's (2023) *Encouraging AI Tinkering and Collaboration Framework,* which promotes an adaptive, culturally responsive method of engaging with AI. Later in this chapter, we provide a detailed breakdown of this framework, with guidance on incorporating Māori and Pacific cultural values.

Creating a safe-to-fail environment

Educators are encouraged to experiment with AI in low-stakes settings, building familiarity without the pressure of achieving perfect outcomes. For instance:

— **Idea Generation:** Educators might begin by using ChatGPT to generate brainstorming ideas, writing prompts, or draft lesson plans, treating the results as a starting point rather than a final product.

Incorporating playful prompts

Using exploratory prompts helps educators understand ChatGPT's capabilities in a relaxed setting, fostering curiosity and experimentation. Examples include:

— Asking ChatGPT to simplify a complex concept for different learning levels.

— Generating creative story starters or discussion prompts to test the tool's adaptability.

Building familiarity through tinkering

Experimenting with various ChatGPT configurations (e.g., tone, formality, and response length) demonstrates the tool's flexibility and helps educators personalise it to their needs. This hands-on exploration reduces the perception that AI is a rigid or intimidating system, replacing it with a sense of control and adaptability.

Fostering shared exploration

Creating a safe-to-fail environment where educators and students explore AI together can foster collective confidence, making AI integration a shared learning journey. This collaborative approach encourages open dialogue, demystifies AI for both parties, and aligns with culturally responsive practices by emphasising shared discovery and inclusivity.

Personalisation settings and templates

Personalisation is a powerful strategy for addressing AI hesitancy, enabling educators to tailor AI responses to reflect their teaching style and classroom values. This approach builds both **trust** and **engagement** by making AI tools feel more responsive and aligned with educators' goals.

Using personalisation templates

Personalisation templates allow educators to set preferences for tone, response style, and context in tools like ChatGPT. These settings ensure that the AI's responses are tailored to the needs of the classroom.

— Responses can be adjusted to be formal and concise for professional settings or friendly and conversational for student interactions.

— Templates can include specific teaching contexts, such as focusing on STEM subjects, culturally relevant examples, or support for diverse learning needs.

Later sections in this chapter provide detailed instructions and ready-to-use templates, helping educators customise their AI tools for maximum effectiveness.

Empowering educators to define AI roles

Defining the role of AI within teaching fosters a collaborative relationship between educators and the tool(s). This empowerment helps educators see AI as a partner, not a replacement, in the learning process. Common roles include:

— **Brainstorming Partner:** AI can generate ideas for lesson planning, creative activities, or project designs.

— **Feedback Source:** AI can provide draft feedback on student work or suggest ways to improve clarity in writing.

— **Digital Teaching Assistant:** AI can support educators with administrative tasks, such as generating quizzes, simplifying complex concepts, or creating tailored learning resources.

In this guide, we focus on two key roles:

1. **AI as a Personal Tutor:** Helping learners with individualised instruction and content adaptation.
2. **AI as a Digital Teaching Assistant:** Assisting educators with day-to-day classroom activities.

By defining these roles, educators can ensure AI complements their teaching practices, alleviating concerns and empowering them to direct how the tool supports their work.

Aligning AI with cultural expectations

Customisation options also allow educators to align AI interactions with cultural values. For example, settings can be adjusted to:

— Use **respectful language** and tone that honours **Māori and Pacific values**.

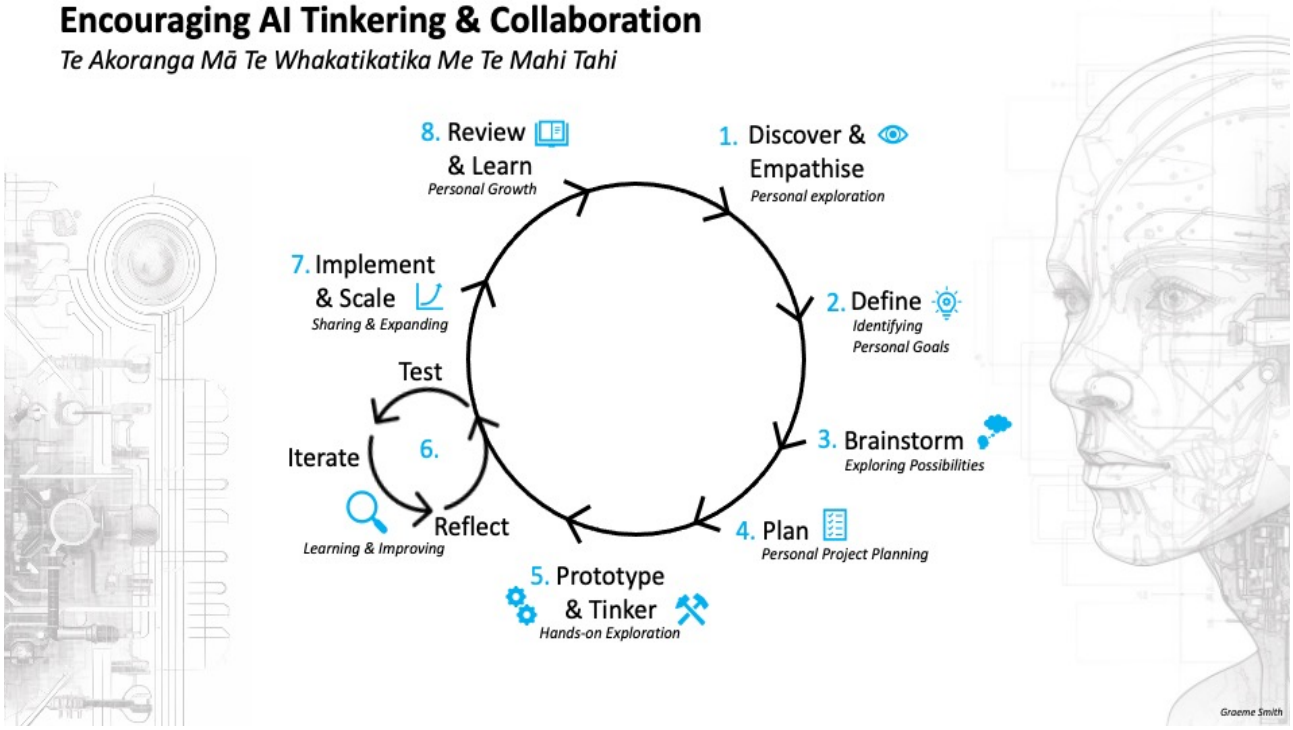
— Incorporate culturally relevant examples and perspectives into lessons or activities.

This cultural alignment helps educators create a learning environment that is both inclusive and responsive to their students' needs, further strengthening trust in AI tools.

3 | Encouraging AI tinkering and collaboration with cultural responsiveness

“Specifically invite input from Māori and Pacific voices to ensure proposed solutions are culturally responsive.” (practical step 2, pg. 19)

Integrating AI into teaching need not feel overwhelming. It can be an exploratory, flexible process where educators tinker with AI tools in a safe, culturally respectful way. Aligned with Smith’s (2023) *Encouraging AI Tinkering & Collaboration Framework,* this approach fosters playful experimentation, collaboration, and ongoing refinement. The framework empowers educators to explore AI while upholding the values of respect, inclusivity, and cultural awareness – particularly critical for Māori and Pacific learners.



The AI tinkering framework: A preview

The AI Tinkering Framework is a step-by-step guide to integrating AI tools into teaching through an iterative cycle of discovery, planning, prototyping, testing, and reflection. Each stage incorporates cultural reflection points, ensuring the process remains inclusive and aligned with diverse learning needs.

1. **Discover and Empathise:** Build genuine connections with students to understand their unique needs, learning goals, and cultural contexts.
2. **Plan and Contextualise:** Define clear teaching goals and align AI tools with cultural and educational values.
3. **Prototype and Experiment:** Explore AI tools in low-stakes, playful ways to understand their potential and limitations.
4. **Test and Collaborate:** Apply AI tools in real teaching scenarios, gathering feedback from students and colleagues.
5. **Reflect and Iterate:** Evaluate outcomes, refine your approach, and continually adapt based on insights.

This framework encourages educators to start small, experiment, and involve their students in the process, fostering a sense of shared exploration and collaborative learning.

Diving deeper: How to apply the framework

Each stage of the framework is designed to guide educators through actionable steps for integrating AI into their teaching. Let's explore each step in detail, with practical advice and cultural reflection points to ensure a responsive and inclusive approach.

Step 1: Discover and empathise

The first step in integrating AI into teaching is to understand the unique needs, learning goals, and cultural contexts within your classroom. This stage encourages educators to build genuine connections with their students, gathering insights into their diverse backgrounds, experiences, and perspectives.

Focus on whakawhanaungatanga (relationships)

Prioritising relationships and empathy is essential for fostering a supportive and inclusive classroom community. This step aligns with Māori and Pacific values of whakawhanaungatanga (relationship-building), which emphasise the importance of understanding students' cultural contexts and individual learning needs. Strengthening these connections creates a foundation for meaningful and culturally responsive teaching practices.

Practical steps

— **Engage in Conversations:** Informal discussions, surveys, or group activities can help uncover students' perspectives, learning preferences, and areas where they need support.

— **Observe Classroom Dynamics:** Pay attention to challenges students face with specific content, technology, or engagement. These observations can reveal opportunities for AI tools to address gaps or enhance learning experiences.

— **Create Open Dialogues:** Encourage students to share their thoughts about learning tools and approaches, fostering a sense of shared exploration and collaboration.

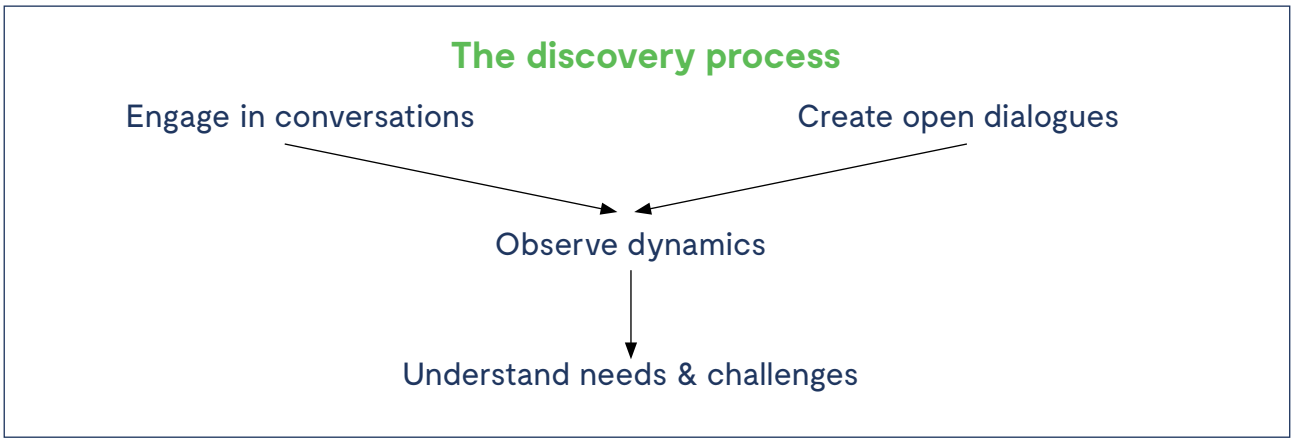
— **Stay Open-Minded:** Approach this stage with curiosity and flexibility, recognising that every classroom is unique.

Cultural reflection

— **Respect for Relationships:** How does this approach to AI respect and strengthen relationships within the classroom community?

— **Informed Decision-Making**: In what ways can understanding students' backgrounds and perspectives shape the AI tools or applications you select?

— **Cultural Alignment:** Consider whether the AI tools reflect the values, narratives, and contexts that are meaningful to your students. For instance, how might incorporating Te Reo Māori or Pacific languages into AI output enhance inclusivity?



Step 2: Define the problem or need

Building on insights from the discovery phase, the next step is to identify a specific challenge or need where AI can enhance your teaching practice. This might involve addressing a common learning difficulty, automating repetitive tasks, or introducing innovative ways to engage students.

Focus on manaakitanga (care and respect)

Manaakitanga emphasises care, respect, and hospitality, encouraging educators to approach problem-solving with an intention to support and uplift students. When defining the problem, consider how AI can serve as a supportive tool that respects and strengthens students' cultural identities, fostering a positive and inclusive learning environment.

Practical steps

1. **Identify a Key Classroom Challenge:**
   - Reflect on your observations from the discovery phase. Is there a particular need or difficulty that stands out?
   - Example: Students may struggle with understanding complex topics or require more individualised feedback.

2. **Explore AI's Potential Role:**
   - Research how AI tools can help address the identified issue.
   - Example: Use ChatGPT to provide personalised, targeted feedback on student work or simplify challenging concepts in culturally relevant ways.

3. **Define Success:**
   - Clearly outline what successful resolution of this problem looks like. It might, for example, mean students feel more engaged, receive timely feedback, or demonstrate improved understanding of specific topics.

4. **Collaborate:**
   - Involve students or colleagues in defining the problem to ensure diverse perspectives are considered.

Cultural reflection

— **Demonstrating Care:** Does this AI solution reflect manaakitanga by addressing the challenge in a way that shows care and respect for students' diverse backgrounds?

— **Fostering Belonging:** How can the solution enhance students' sense of identity and belonging?

— **Cultural Relevance:** Can the tool be adapted to reflect cultural values, such as incorporating Te Reo Māori or Pacific contexts into its functionality?

By defining the problem or need with both practicality and cultural awareness, educators can lay the foundation for AI solutions that genuinely enhance learning experiences.

Step 3: Ideate and brainstorm AI solutions

With the problem clearly defined, the next step is to engage in a collaborative brainstorming process to explore creative AI solutions. This stage thrives on open, respectful discussions that bring together a variety of perspectives, fostering diverse and culturally sensitive ideas.

Focus on talanoa (open dialogue)

Talanoa, rooted in Pacific traditions, emphasises open dialogue and shared understanding. By encouraging open conversations with both colleagues and students, educators can ensure that AI solutions align with cultural and educational goals. This approach creates space for respectful exchanges of ideas and prioritises the inclusion of under-represented voices.

Practical steps

1. **Organise Collaborative Sessions:**
   - Host brainstorming sessions or workshops with colleagues, students, or both.
   - Create a structured but welcoming environment where everyone feels encouraged to contribute their ideas without fear of judgement or criticism.

2. **Encourage Diverse Contributions:**
   - Specifically invite input from Māori and Pacific voices to ensure proposed solutions are culturally responsive.
   - Example: Ask how AI could support the integration of cultural narratives or help learners engage with Te Reo Māori or Pacific languages.

3. **Explore Creative AI Applications:**
   - Challenge participants to think beyond traditional uses of AI.
   - Example: Could AI tools be used to generate culturally relevant scenarios, simplify complex topics, or create engaging multimedia content for lessons?

4. **Document Ideas:**
   - Record all contributions during the session to ensure no ideas are overlooked. Use tools like shared documents or visual brainstorming boards to capture input.

5. **Evaluate Feasibility:**
   - Discuss which solutions are most realistic or achievable, given available tools and resources, balancing creativity with practicality.

Cultural reflection

— **Inclusivity in Dialogue:** Does this process ensure that diverse perspectives, especially from Māori and Pacific communities, are represented and valued?

— **Alignment with Cultural Goals:** Are the proposed AI solutions reflective of cultural values, such as respect for identity and connection to community?

— **Support for All Learners:** How do these ideas ensure equity and inclusivity in their implementation, benefiting learners from all backgrounds?

By encouraging open dialogue and valuing diverse perspectives, this stage fosters AI solutions that are not only innovative but also culturally meaningful and responsive to the needs of the classroom community.

Inclusivity check matrix

Criteria	Reflection Question	Action Step
Inclusivity in Dialogue	Are diverse perspectives represented and valued?	Invite and highlight underrepresented voices
Cultural Goals Alignment	Do solutions respect identity and connections?	Tailor AI to reflect cultural narratives
Equity and Inclusivity	How do ideas benefit learners from all backgrounds?	Focus on accessible and inclusive solutions

Step 4: Plan the AI integration

With creative AI solutions identified, the next step is to develop a step-by-step plan for integrating the chosen tool into your classroom. This plan should focus on introducing AI to students, preparing necessary resources, and addressing ethical and cultural considerations. By carefully planning, educators can ensure that AI use respects student identities and contributes positively to the learning environment.

Focus on mana and safety

Mana represents dignity, respect, and authority. When planning AI integration, it's essential to uphold the mana of every student by creating a safe, inclusive, and culturally supportive environment. This includes fostering trust, ensuring students feel empowered rather than intimidated, and embedding cultural values into the AI's use.

Practical steps

1. **Outline Logistics:**
   - Develop a clear implementation plan for how and when the AI tool will be introduced.
   - Example: Decide whether the AI will support specific lessons, provide individualised feedback, or assist with class projects.

2. **Prepare Resources:**
   - Create guides or tutorials for students to help them understand how to interact with the AI tool effectively and responsibly.
   - Example: Develop a handout that explains how to use ChatGPT ethically, emphasising respect for others and responsible data sharing adhering to the New Zealand Privacy Act 2020.

3. **Collaborate with Stakeholders:**
   - Consult with students, families, and community members to ensure the AI tool aligns with cultural values and meets the needs of all learners.
   - Example: Seek feedback from Māori and Pacific communities on how AI can reflect and support their cultural narratives.

4. **Address Ethical Considerations:**
   - Identify potential challenges, such as bias in AI output or privacy concerns, and include strategies to mitigate these risks.
   - Example: Set clear boundaries for what data can and cannot be shared with the AI tool.

5. **Introduce AI Gradually:**
   - Start small by using AI in low-stakes scenarios to build familiarity and confidence among students. Gradual implementation helps reduce anxiety and encourages experimentation.

Cultural reflection

— **Creating a Safe Space:** Does the plan provide a safe and supportive environment for all students to engage with AI?

— **Protecting Mana:** How does the plan uphold the dignity of each learner, ensuring respect for their identity, cultural values, and learning needs?

— **Fostering Trust:** Have you considered how the AI tool will be introduced in a way that builds trust and fosters collaboration within the classroom community?

By embedding mana and safety into the planning process, educators can create a thoughtful integration strategy that ensures AI tools enhance learning while respecting the identities and values of every student.

Step 5: Create a prototype and tinker with the tool

With a clear plan in place, begin testing AI tools in a low-stakes, exploratory environment, focusing on adaptation and discovery. This stage encourages educators to "tinker" with AI settings and configurations, experimenting with how the tool can best support teaching and learning.

Focus on Ako (reciprocal learning)

Ako, a Māori concept of reciprocal learning, emphasises the value of shared experiences where both educators and students learn from and with each other. This stage is an opportunity to embrace collaboration and mutual growth, fostering an inclusive atmosphere where feedback and experimentation are central.

Practical Steps

1. **Experiment with Configurations:**
   - Test different AI settings and functionalities to understand the tool's potential and limitations.
   - Example: Adjust ChatGPT's tone, response length, or specificity to match the needs of your classroom.

2. **Pilot Low-Stakes Activities:**
   - Start small by using AI for simple tasks such as generating discussion prompts, summarising lessons, or creating sample questions.
   - Example: Use ChatGPT to draft creative writing prompts, then evaluate their effectiveness through student feedback.

3. **Involve Students in the Process:**
   - Encourage students to interact with the tool and share their insights on its usefulness in their learning journey.
   - Example: Ask students to evaluate how well an AI-generated explanation helps them understand a complex topic.

4. **Iterate Based on Feedback:**
   - Collect feedback from both students and colleagues to refine how the tool is used.

- Example: If students find the AI's tone too formal, adjust settings to make responses more relatable and engaging.

5. **Document Learnings:**
   - Record what works and what doesn't, creating a reference for future use. This can include notes on successful configurations or areas for improvement.

Cultural reflection

— **Reciprocal Learning:** How does this process create opportunities for educators and students to learn from each other?

— **Acknowledging Perspectives:** Are both educator and student voices considered in refining the tool's use?

— **Cultural Alignment:** Does the tinkering process respect and integrate cultural values, ensuring AI outputs align with the classroom's diverse needs?

Step 6: Test, reflect and iterate

With a clear plan in place, begin testing AI tools in a low-stakes, exploratory environment, focusing on adaptation and discovery. This stage encourages educators to tinker with AI settings and configurations, experimenting with how the tool can best support teaching and learning.

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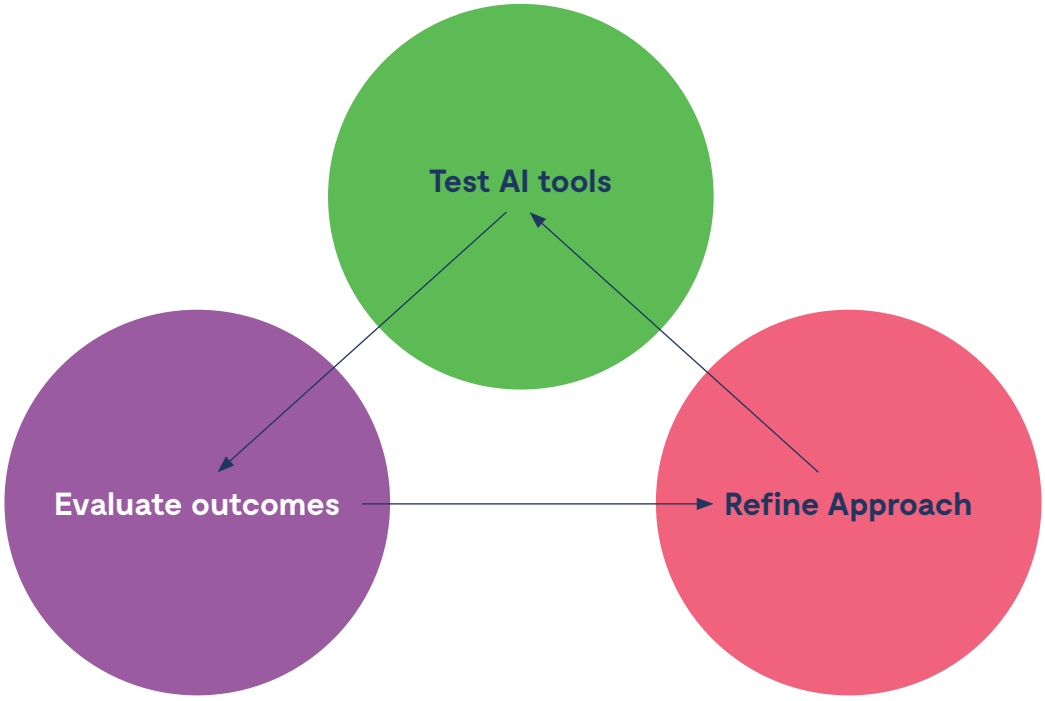
— **Acknowledging Perspectives:** Are both educator and student voices considered in refining the tool's use?
— **Cultural Alignment:** Does the tinkering process respect and integrate cultural values, ensuring AI outputs align with the classroom's diverse needs?

By approaching this stage with curiosity and openness, educators can foster a collaborative learning environment where AI tools are continuously refined to meet the needs of their students and classroom community.

Feedback loop: testing and reflecting



Step 7: Implement and scale the solution

After refining the prototype, the next step is to implement the AI tool on a larger scale, extending its use to multiple classes or broader teaching practices. This phase requires careful planning to ensure that the AI application continues to align with cultural and educational goals, supporting equity and inclusivity as it expands.

Focus on collective well-being

Scaling AI applications should prioritise the well-being of the entire classroom and wider community. This involves ensuring the tool provides equitable benefits for all students while fostering a sense of inclusion and cultural relevance. Collective well-being reflects a commitment to shared success and a balanced approach to innovation.

Practical steps

1. **Develop a Scalable Plan:**
   - Outline how the AI tool will be introduced across additional classes or teaching practices.
   - Example: Identify specific activities, lessons, or administrative tasks that the AI tool can support at scale, ensuring consistency across contexts.

2. **Incorporate Continuous Reflection:**
   - Build regular opportunities for feedback into the scaling process to monitor effectiveness and alignment with goals.
   - Example: Schedule periodic check-ins with students and colleagues to gather insights and adjust the implementation as needed.

3. **Ensure Inclusivity at Scale:**
   - Evaluate how the tool impacts different groups of learners to ensure no one is left behind.
   - Example: Tailor AI outputs to reflect the diverse cultural contexts and needs of all students, including Māori and Pacific learners.

4. **Provide Training and Resources:**
   - Support educators and students with clear guidance on using the AI tool effectively as its use expands.
   - Example: Develop workshops or instructional materials to help colleagues integrate the tool into their own teaching practices.

5. **Monitor Broader Outcomes:**
   - Assess the tool's impact on learning outcomes, engagement, and community well-being to ensure it continues to deliver meaningful benefits.
   - Example: Use surveys, assessments, or collaborative discussions to measure success and identify areas for improvement.

Cultural reflection

— **Supporting Collective Well-being:** How does scaling this AI application contribute to the well-being of the entire classroom and community?

— **Maintaining Cultural Relevance:** Are the tool's outputs and applications continuously adapted to remain inclusive and culturally aligned?

— **Equity in Access:** Does the implementation ensure that all students have equal access to, and understanding of, the benefits of the AI tool, regardless of their background or learning needs?

By implementing and scaling AI tools thoughtfully, educators can create a sustainable and inclusive approach that enhances learning outcomes while upholding the cultural and collective well-being of the classroom community.

Scaling and inclusivity: Tree diagram

Step 8: Review and learn from the process

The final step in the AI integration journey is to conduct a comprehensive review, reflecting on lessons learned and documenting key takeaways. This stage not only promotes ongoing growth but also sets the foundation for future innovation by encouraging educators to learn from their experiences.

Focus on reflection and responsibility

Reflection is a crucial part of this process, offering an opportunity to evaluate how well the integration upheld cultural values and supported inclusive learning environments. Responsibility involves acknowledging areas for improvement and committing to adapting future AI initiatives to better align with students' needs and identities.

Practical steps

1. **Summarise Key Insights:**
   - Reflect on what worked well and what didn't during the AI integration process.
   - Example: Document effective strategies, challenges faced, and adjustments made to ensure the tool met cultural and educational goals.

2. **Document Best Practices:**
   - Create a resource for future use, outlining lessons learned and successful methods for integrating AI tools.
   - Example: Develop a guide or checklist to help other educators navigate similar AI implementations.

3. **Share Findings:**
    - Foster a culture of collaboration by sharing insights with colleagues or the wider educational community.
    - Example: Present findings in staff meetings, professional development sessions, or through written reports.

4. **Plan for Future Initiatives:**
    - Use the insights gained to shape future AI projects, ensuring continuous improvement and alignment with cultural and educational values.
    - Example: Set goals for experimenting with new AI tools or refining current applications based on feedback.

Cultural reflection

— **Creating Respectful Environments:** What have we learned about fostering respectful, inclusive learning environments through AI?

— **Aligning with Values:** How well did the process uphold cultural values such as mana, va (the concept of reciprocal space), and ako?

— **Shaping the Future:** How can these lessons inform future AI initiatives, ensuring they remain culturally aligned and inclusive for all learners?

By embracing reflection and responsibility, educators can continuously refine their approach to AI integration, ensuring that it evolves to better serve the needs of students and the broader educational community.

4 | Introducing AI and ChatGPT: A starting point for educators

"By leveraging ChatGPT as a tutor, teaching assistant, or facilitator of interactive experiences, educators can create dynamic, personalised learning environments that support diverse student needs." (pg. 32).

Understanding the fundamentals of AI and ChatGPT is a crucial first step for educators looking to integrate these technologies into their teaching practice. Familiarity with the basic concepts enables educators to better grasp AI's potential in education, empowering them to explore its applications with confidence and share their knowledge with colleagues.

This section provides a foundational overview of AI and ChatGPT, designed to be accessible for educators at all levels of technological expertise. By establishing a shared understanding of how AI operates, schools and educators can build a strong foundation for thoughtful and effective AI integration.

Why understanding AI matters

— **Build Confidence:** Demystify AI by breaking down its key features and addressing common misconceptions.
— **Facilitate Collaboration:** A shared understanding among staff creates a supportive environment for experimentation and innovation.
— **Enhance Communication:** Educators who understand the basics of AI can confidently explain its value and limitations to students, colleagues, and stakeholders.

What this section covers

This introduction will guide educators through:

1. **Key AI Concepts:** A simplified explanation of artificial intelligence, machine learning, and natural language processing.

2. **How ChatGPT Works:** A step-by-step breakdown of ChatGPT's functionality, including how it generates responses and its potential applications in education.

3. **Ethical and Practical Considerations:** An overview of data privacy, cultural responsiveness, and ethical use of AI in classrooms.

By equipping educators with this foundational knowledge, schools and institutions can approach AI integration with clarity, collaboration, and cultural awareness, ensuring that these tools are used to enhance teaching and learning for all students.

Core concepts of AI

Artificial Intelligence (AI) refers to the simulation of human intelligence in machines, enabling them to perform tasks that typically require human thought, reasoning, and decision-making. In education, AI can automate routine tasks, personalise learning experiences, and provide data-driven insights to support teaching and learning.

Below are three foundational principles that explain how AI functions:

1. Perception

AI's ability to interpret data – such as text, images, or sounds – enables it to analyse information and draw meaningful insights.

— **Example:** An AI tool might analyse student responses to identify patterns in comprehension, helping teachers personalise learning strategies.

— **Analogy:** This capability mirrors a teacher's skill in observing classroom cues, though AI relies on data rather than intuition.

2. Reasoning

AI's capacity to draw conclusions and make predictions based on data allows it to offer actionable insights.

— **Example:** An AI tool might predict which students could benefit from additional support by analysing performance trends, enabling teachers to proactively address learning gaps.

— **Value:** By generating insights, AI empowers educators to make data-informed decisions tailored to individual student needs.

3. Learning

Through processes like Machine Learning (ML) and Deep Learning, AI systems can adapt and improve over time by learning from new data.

— **Example:** An AI-powered platform might refine its recommendations for students as it gains more data on their progress, making it increasingly responsive and effective.

— **Analogy:** Like students learning from experience, AI systems evolve, enhancing their ability to support education dynamically.

How ChatGPT works

AI in education: approaches and applications

AI encompasses various methods, each with unique applications in education. Understanding these distinctions helps educators identify tools that best suit their needs:

1. **Artificial Intelligence (AI):**
   - The broader field focused on creating systems capable of human-like abilities, such as perception, reasoning, and learning.
   - **Example:** AI-powered assistants that generate lesson plans or automate grading tasks.

2. **Machine Learning (ML):**
   - A subset of AI that enables systems to learn from data and improve without explicit programming.
   - **Example:** Analysing student performance to identify common challenges and provide tailored feedback.

3. **Deep Learning:**
   - An advanced form of ML that leverages neural networks to process large datasets like speech, images, or video.
   - **Example:** Deep learning applications can power accessibility tools such as voice-to-text features or create engaging interactive learning environments through image recognition.

Bringing it all together

By leveraging these capabilities, AI tools can interpret data, make decisions, and provide predictions, helping educators support students in responsive and innovative ways. Thoughtful integration of AI enables educators to:

— Enhance learning experiences.

— Address diverse student needs.

— Free up time for more meaningful teacher-student interactions.

When used with intention, AI becomes a valuable ally in creating dynamic, inclusive, and personalised educational environments.

ChatGPT's role in education

ChatGPT is a language-based AI tool designed to simulate human-like interactions through text, making it a powerful and versatile resource in educational settings. By enhancing traditional teaching practices, ChatGPT offers educators and students innovative ways to engage with learning.

Here are some of the key methods of effectively using ChatGPT in education:

1. Personal Tutoring

ChatGPT can act as a one-on-one tutor, helping students understand concepts, answer questions, and practice essential skills.

— **Example:** Educators might use ChatGPT to support students in essay writing. The AI provides feedback on structure, grammar, and argumentation, offering personalised guidance tailored to each student's needs.

— **Value:** This functionality makes ChatGPT an accessible resource for students seeking additional support outside class hours, enabling independent learning and improving student outcomes.

2. Digital Teaching Assistant

ChatGPT can serve as a teaching assistant, streamlining repetitive or time-consuming tasks:

— **Examples:**
- Generating lesson ideas or creative prompts.
- Grading short responses with pre-set rubrics.
- Drafting discussion questions to foster engagement.

— **Value:** By handling routine tasks, ChatGPT allows educators to focus on direct interactions with students, enhancing the overall learning environment.

3. Interactive learning experiences

ChatGPT facilitates interactive learning by simulating conversations, role-playing exercises, or historical scenarios:

— **Example:** Students can "converse" with historical figures like Aeneas or Virgil, deepening their understanding of classical studies through dialogue and exploration.

— **Value:** This approach makes learning more engaging, fostering creativity and critical thinking by encouraging students to explore complex topics dynamically.

Real-World example: Grace's story

The impact of ChatGPT in education is exemplified by Grace, a student preparing for her NCEA Level 3 Classical Studies exam. Using ChatGPT, Grace engaged in interactive conversations with simulated figures such as Aeneas and Virgil, alongside a virtual "professor" who provided personalised feedback on her writing.

Through these experiences, Grace improved her essay skills, developed independence in her studies, and ultimately achieved an **"Excellence"** grade. Her story illustrates how ChatGPT can empower students by providing tailored, interactive assistance that adapts to individual needs. For more on Grace's journey, see Parts 2 and 3 of our short video series, available here.

By leveraging ChatGPT as a tutor, teaching assistant, or facilitator of interactive experiences, educators can create dynamic, personalised learning environments that support diverse student needs. With thoughtful integration, ChatGPT becomes a valuable tool for enhancing teaching and learning, freeing up educators to focus on what matters most – building meaningful connections with students.

Ethical considerations and responsible AI use

As AI becomes more embedded in educational settings, it's essential to approach its use thoughtfully, ensuring that tools like ChatGPT are implemented in ways that uphold ethical standards and foster trust. Below are three core ethical considerations for integrating AI responsibly in the classroom:

1. Data privacy

Protecting student data is a critical priority when using AI tools. Responsible AI use involves safeguarding personal information to prevent misuse or breaches.

— **Key Practices:**
- Verify that AI tools anonymise data or avoid storing it long-term to minimise privacy risks.
- Ensure sensitive student records, performance data, or personal details are never uploaded to AI platforms unnecessarily.

— **Building Trust:**
  - Communicate openly with students and families about how data is handled, providing reassurance about privacy protections.
  - Example: Explain that ChatGPT does not store personal data, reinforcing confidence in its use for tasks like homework support or content exploration.

2. Algorithmic bias

AI systems, including ChatGPT, can reflect biases present in the data they were trained on, potentially leading to unfair or non-representative output. This is especially significant when working with diverse groups of students.

— **Key Practices:**
  - Monitor AI-generated responses for potential biases or stereotypes that could negatively impact students.
  - Regularly review output for fairness and inclusivity, involving students in this process to gather valuable feedback.

— **Promoting Equity:**
  - If biased output is detected, supplement or adjust the AI tool to ensure it supports equitable learning experiences.
  - Example: Use prompts tailored to reflect diverse perspectives, such as integrating Māori and Pacific values into ChatGPT responses to ensure cultural relevance.

3. Transparency

Clear communication about AI's role in the classroom builds trust among students, parents, and colleagues. Transparency fosters a shared understanding of AI's purpose, capabilities, and limitations.

— **Key Practices:**
  - Discuss the role of AI in your teaching, positioning it as a supportive tool that complements, rather than replaces, traditional teaching methods.
  - Set clear expectations for when and how AI will be used, such as for generating ideas, providing feedback, or exploring content.

— **Engaging Stakeholders:**
  - Include students and families in conversations about AI use, reinforcing the educator's role as a guide and mentor.
  - Example: Share how ChatGPT will be used for specific activities, like offering supplementary feedback on essays, to demystify its role in learning.

Important Note: AI tools should not be used to anonymise or de-identify sensitive learner data. These systems are not designed to guarantee data privacy or compliance with ethical or legal standards for data protection. Any sensitive information should be handled through secure, approved processes outside of AI environments.

Creating a safe and inclusive environment

By adhering to these ethical principles, educators can create a safe, inclusive space for students to interact with AI tools:

— **Privacy** ensures that students feel secure when using technology.

— **Bias mitigation** promotes fairness and equity for all learners.

— **Transparency** builds trust and confidence in AI's role as an enhancement to – not a replacement for – the essential guidance of teachers.

Thoughtful and transparent use of AI will allow educators to integrate these tools effectively, respecting cultural and ethical values while empowering students to explore learning in new, innovative ways.

5 | AI customisation: Personalising ChatGPT

“Personalised ChatGPT becomes more than a tool – it becomes a trusted partner in creating engaging and impactful learning experiences.” (pg. 42)

Customising ChatGPT empowers educators to tailor the tool’s responses to reflect their teaching style and address the specific needs of their classroom. By aligning ChatGPT’s output with their objectives, educators can create more relevant and impactful interactions, fostering a supportive and adaptable learning environment.

For those new to AI, the process of setting up and customising ChatGPT is designed to be straightforward and accessible, making it a valuable addition to any educator’s toolkit.

Why personalisation matters

— **Enhances Relevance:** Tailored responses align with classroom values and subject-specific needs, ensuring ChatGPT’s use supports learning objectives.

— **Boosts Engagement:** Students benefit from responses that are thoughtful, context-aware, and aligned with their cultural and educational backgrounds.

— **Improves Efficiency:** Customisation streamlines tasks, allowing ChatGPT to perform roles such as generating lesson plans or providing individualised feedback more effectively.

What this chapter covers

This chapter provides a step-by-step guide to:

1. **Setting Up ChatGPT:** Initial configuration steps to optimise ChatGPT for educational contexts.
2. **Customising Settings:** How to adjust tone, response length, and content focus to suit classroom needs.
3. **Integrating with Tools:** Strategies for combining ChatGPT with other educational technologies to create a seamless workflow.

Step 1: Setting up ChatGPT

Getting started with ChatGPT is straightforward and involves a few simple steps to ensure the tool is ready to support your classroom activities effectively. This initial setup provides the foundation for seamless integration into your teaching practice.

1. Creating an account

— **How to Begin:** Visit the OpenAI website and create an account if you haven't already.
— **Access Features:** Once logged in, you'll gain access to ChatGPT's main interface, settings, and features designed to support educational use.

2. Navigating the interface

— **Familiarise Yourself:** Explore ChatGPT's layout, including the main workspace where you interact with the tool and the settings page for adjusting preferences.
— **Key Functions:** The settings page allows you to customise ChatGPT's behaviour to align with your teaching needs, such as tone, response length, or content focus.
— **Pro Tip:** Spend time familiarising yourself with the interface so you can quickly access the tools and features most relevant to your teaching.

3. Exploring Initial Functions

— **Trial Prompts:** Start by testing basic prompts to understand ChatGPT's core capabilities. Examples include:
  - Generating a summary of a topic.
  - Creating a discussion question.
  - Providing feedback on a hypothetical student response.

— **Purpose:** These trial prompts will help you explore ChatGPT's responses, strengths, and limitations, building your confidence in using it effectively.

Laying the foundation

Taking the time to set up and explore ChatGPT thoroughly ensures that it is correctly configured, minimising interruptions during lessons. This initial navigation provides a strong foundation for integrating ChatGPT into your teaching, enabling you to focus on creating engaging, meaningful learning experiences.

Step 2: Configuring custom settings

Customising ChatGPT allows educators to fine-tune the tool's responses, ensuring they align with the specific needs and preferences of the classroom. By personalising ChatGPT's tone, style, and focus, educators can make interactions more relevant, engaging, and supportive for their students.

1. Inputting personal information and preferences

— **Adjust Response Style:** Customise ChatGPT's tone, formality, and interaction style to suit your teaching environment.

Examples:

- Use a conversational tone for younger students to create a friendly, accessible atmosphere.
- Select a more formal tone for advanced learners or academic activities.
- Adjust the level of detail to align with your students' ages and learning needs, such as simplifying explanations for younger learners or providing in-depth analysis for senior classes.

— **Why It Matters:** These adjustments ensure ChatGPT's responses complement your teaching style and meet students where they are in their learning journey.

2. Using the ChatGPT customisation templates

To streamline the customisation process, use the **ChatGPT Customisation Templates** included in the Appendices. These templates allow educators to:

— Specify preferred interaction style, tone, and subject area focus.

— Include cultural preferences, such as incorporating Te Reo Māori or Pacific values into responses.

— Create multiple configurations for different activities or audiences, making it easy to adapt ChatGPT's settings as needed.

Example Use: Complete the template to set ChatGPT for a writing workshop, prioritising constructive feedback, or for a creative exercise, encouraging imaginative responses. Templates make it straightforward to optimise ChatGPT for specific teaching scenarios.

3. Examples of personalised responses

Once configured, ChatGPT delivers responses that are better tailored to your students' needs.

— **For Younger Students:** Use simplified language and examples relevant to their everyday experiences.

- Example: "Explain photosynthesis like a fun recipe for plants."

— **For Older Students:** Adopt an academic tone and provide detailed explanations.

- Example: "Analyse the economic impacts of globalisation with references to key case studies."

— **For Specific Activities:** Personalise ChatGPT for tasks like:
  - Providing constructive feedback: Highlighting strengths and offering specific, actionable suggestions.
  - Generating creative prompts: Inspiring imaginative thinking for writing or project-based learning.

Integrating ChatGPT as a tailored tool

These customisation steps allow ChatGPT to become a natural extension of your teaching toolkit, aligned with your goals and responsive to your students' unique learning needs. By tailoring ChatGPT's behaviour, educators can ensure the tool enhances classroom dynamics while maintaining cultural and educational relevance.

Step 3: Integrating ChatGPT with educational tools

After setting up and customising ChatGPT, educators can maximise its potential by integrating it with other educational tools. This approach enhances workflows, supports student engagement, and streamlines various teaching tasks, transforming ChatGPT into a seamless and supportive resource within the classroom's technological ecosystem.

1. Integrating with document platforms

ChatGPT can assist with writing and editing tasks in popular tools like Google Docs or Microsoft Word, enabling students to receive support while working within familiar platforms.

— **Examples of Use:**
  - **Brainstorming:** Help students generate ideas for essays or projects.
  - **Outlining:** Guide students in structuring their work by creating clear, logical outlines.
  - **Refining Drafts:** Suggest clearer language, improve argumentation, or identify areas for deeper analysis.

— **Value:** By acting as a real-time writing companion, ChatGPT provides immediate, actionable feedback that supports students in developing their writing skills.

2. Embedding in a Learning Management System (LMS)

If your institution uses an LMS like Moodle, Canvas, or Google Classroom, integrating ChatGPT can provide real-time support directly within the learning environment.

— **Capabilities:**
  - **Answering Questions:** ChatGPT can assist students with queries related to course content.
  - **Feedback on Assignments:** Offer personalised, instant feedback on drafts or problem sets.
  - **Guidance and Resources:** Provide tailored suggestions or resources aligned with course objectives.

— **Value:** This integration creates a consistent and accessible support system, enabling students to interact with ChatGPT without leaving their primary learning platform.

3. Supporting lesson planning and assignment development

ChatGPT is a valuable tool for educators looking to streamline the creation of engaging and diverse teaching materials.

— **Examples of Use:**
  - **Lesson Themes:** Brainstorm topics or activities that align with curriculum goals.
  - **Interactive Content:** Generate quizzes, discussion prompts, or creative assignments.
  - **Varied Formats:** Explore ideas for hands-on projects, group work, or multimedia assignments.

— **Value:** By reducing the time spent on planning, educators can focus more on student engagement and instructional delivery.

Benefits of integration

By connecting ChatGPT to widely used educational tools, educators can:

— Enhance teaching efficiency by automating repetitive tasks.

— Provide students with immediate and relevant feedback.

— Create a unified learning experience, where ChatGPT is embedded naturally into everyday teaching and learning activities.

Integrating ChatGPT into document platforms, LMS systems, and lesson planning workflows transforms it from a standalone tool into a dynamic and supportive resource, enriching both teaching and learning experiences.

Why GPT personalisation matters for educators

While the benefits of personalisation for learners will be explored in the next chapter, it's equally important to consider why customising ChatGPT is essential for educators. Personalisation transforms ChatGPT from a generic AI tool into a tailored resource designed to align with the specific needs and teaching dynamics of each classroom. By adapting ChatGPT to their teaching approach, educators can leverage it as a more effective and supportive instructional partner.

Customisation not only enhances ChatGPT's responsiveness to classroom goals but also helps reduce initial hesitancy by giving educators control over how AI integrates into their unique teaching environments.

1. Supporting classroom dynamics

Every classroom operates with its own rhythm, teaching style, and student needs. Customising ChatGPT ensures that interactions are meaningful and relevant to the specific teaching context.

— **Key Benefits:**
  - Tailoring ChatGPT's settings allows it to reflect the unique dynamics of the classroom, making it an adaptable extension of the teacher's instructional approach.
  - **Example:** In a primary school setting, ChatGPT might be configured to respond in a friendly, conversational tone, while for a class with adult learners, responses can be more formal and analytical.

This alignment ensures that ChatGPT enhances, rather than disrupts, the flow of teaching and learning.

2. Strengthening instructional effectiveness

Customisation improves ChatGPT's ability to support differentiated instruction, ensuring responses align with specific learning objectives.

— **Examples of Personalisation:**
  - **Younger Students:** Simplified language and encouraging feedback to foster engagement.
  - **Advanced Learners:** Analytical responses that encourage deeper critical thinking.
  - **Subject-Specific Focus:** Adjusting settings to prioritise particular disciplines, such as generating prompts for creative writing or explaining scientific concepts.

This flexibility makes lessons more effective and engaging, helping educators meet the diverse needs of their students.

3. Building trust and reducing hesitancy

For educators who are new to AI, customisation can make ChatGPT feel less like a one-size-fits-all tool and more like a supportive teaching partner.

— **Key Benefits:**
  - Customisation aligns the AI with educators' teaching values and goals, fostering confidence that ChatGPT will enhance rather than disrupt the classroom environment.
  - By personalising ChatGPT, educators can experiment with its features in a way that feels secure and intuitive, overcoming initial hesitancy.

When educators trust ChatGPT as an adaptable partner, they are more likely to explore its potential and integrate it meaningfully into their teaching practices.

Why personalisation matters

By focusing on classroom dynamics and instructional goals, educators can transform ChatGPT into an invaluable resource that:

— Complements their teaching style.

— Enhances their effectiveness.

— Respects their approach to education.

Personalised ChatGPT becomes more than a tool – it becomes a trusted partner in creating engaging and impactful learning experiences.

6 | Designing personalised learning with ChatGPT

"ChatGPT can assist in developing engaging educational materials such as quizzes, discussion prompts, or multimedia project ideas." (pg. 47)

Personalised learning with ChatGPT empowers educators to create tailored educational experiences that address each student's unique needs. By leveraging ChatGPT's versatility, educators can enhance teaching and learning in two key roles:

1. **Personal Tutor:** Supporting students directly by offering guidance, feedback, and interactive learning opportunities.
2. **Digital Teaching Assistant:** Assisting educators with tasks such as planning, content creation, and assessments.

This chapter explores these roles in detail, offering interactive prompts, step-by-step guidance, and customisation strategies to maximise ChatGPT's effectiveness in personalising learning.

Why personalised learning matters

— **Individual Support:** Personalisation ensures that each student's learning preferences, strengths, and challenges are addressed.

— **Enhanced Engagement:** Tailored interactions keep students motivated and invested in their learning journey.

— **Efficiency for Educators:** By assisting with repetitive tasks, ChatGPT enables educators to focus on meaningful student-teacher interactions.

What this chapter covers

This chapter provides practical insights into:

— **Using ChatGPT as a Personal Tutor:** Techniques to create interactive, student-focused experiences.

— **Leveraging ChatGPT as a Digital Teaching Assistant:** Strategies to streamline planning and administrative tasks.

— **Interactive Prompts and Examples:** Real-world applications of ChatGPT in personalised learning scenarios.

— **Customisation for Personalised Learning:** Tips for aligning ChatGPT's output with specific classroom goals and student needs.

By thoughtfully integrating ChatGPT into these roles, educators can provide students with engaging, adaptive learning experiences while enhancing their own teaching efficiency.

Personal tutor role

Using ChatGPT as a Personal Tutor enables educators to provide individualised support, where ChatGPT can:

— Respond to students' questions.

— Offer guidance on complex topics.

— Adapt its explanations based on student feedback and comprehension.

This role empowers educators to deliver personalised tutoring without the time constraints of one-on-one sessions, allowing more students to receive tailored support.

Example applications

1. Explaining complex topics

ChatGPT can simplify challenging concepts by using examples that resonate with students' interests or real-world scenarios.

Example Prompt:

— *"You are an AI tutor for a Year 13 student studying physics. Help them understand projectile motion using a rugby ball example."*

— **How ChatGPT Responds:** ChatGPT can guide the student step by step through calculations related to velocity, angle, and time of flight. It can adjust its explanation based on the student's input, offering foundational explanations or advanced insights as needed.

2. Simulating real-world scenarios

ChatGPT can create interactive simulations, allowing students to apply their knowledge in practical, controlled environments.

Example Prompt:

— *"You are an AI tutor for a student preparing for a health and safety certification. Create interactive scenarios where they must identify hazards in a commercial kitchen and take the correct safety actions, providing immediate feedback and explanations."*

— **How ChatGPT responds:** The AI can present realistic scenarios (e.g., spotting a wet floor or improper food storage) and ask the student to decide the best safety actions. It provides feedback and corrections, reinforcing proper safety protocols.

Benefits of the personal tutor role

— **Individualised Learning:** ChatGPT adjusts explanations to match each student's level of understanding, making it accessible for diverse learners.

— **Reinforcing Foundations:** It can strengthen students' grasp of fundamental concepts through repetition and step-by-step guidance.

— **Advanced Exploration:** ChatGPT supports deeper learning by answering advanced questions and introducing students to complex applications.

— **Practice and Feedback:** Interactive scenarios allow students to practice skills while receiving immediate, actionable feedback.

By acting as a Personal Tutor, ChatGPT fosters responsive, interactive learning experiences that cater to individual needs, enhancing students' confidence and understanding in a wide range of subjects and skills.

Digital teaching assistant role

Using ChatGPT as a Digital Teaching Assistant allows educators to streamline their workload while maintaining high-quality, standards-aligned teaching materials. This role supports educators in creating lesson plans, assessment rubrics, and teaching content, saving time and enabling them to focus more on student engagement and instructional delivery.

Example applications

1. Lesson planning

ChatGPT can generate detailed lesson plans that align with curriculum standards, including daily objectives, activities, and assessments.

Example Prompt:

— *"Help me create a 2-week lesson plan for Year 12 Hospitality on kitchen hygiene and safety. Include daily objectives, interactive activities, and a final assessment aligned with Level 4 NZQA standards."*

— **How ChatGPT Responds:**

- Generates a comprehensive lesson structure with:
  Daily Objectives: Clear goals for each class.
  Interactive Activities: Engaging tasks, such as group discussions or kitchen simulations.
  Assessments: A final project or quiz aligned with industry standards, such as Level 4 NZQA criteria.
- Educators can adapt these suggestions to fit their unique classroom needs quickly and effectively.

2. Creating assessment rubrics

ChatGPT simplifies the process of designing rubrics and marking guides for evaluating student performance.

Example Prompt:

— *"Create a rubric for assessing a three-course meal in a hospitality course. Include criteria for kitchen safety, time management, preparation techniques, and presentation, with a 1-5 scoring scale for each."*

— **How ChatGPT Responds:**

- Provides a clear and structured rubric with:
  Criteria: Key areas such as kitchen safety, preparation techniques, and presentation.
  Scoring Scale: A detailed 1-5 scale for consistent evaluation.
- The rubric ensures comprehensive and objective assessments, helping educators maintain fairness and transparency.

3. Content creation

ChatGPT can assist in developing engaging educational materials such as quizzes, discussion prompts, or multimedia project ideas.

Example Prompt:

— *"Generate a set of five discussion prompts on the ethical implications of food waste in the hospitality industry."*

— **How ChatGPT Responds:**
  - Creates thought-provoking prompts that encourage critical thinking and discussion, aligning with lesson objectives.

Benefits of the digital teaching assistant role

— **Timesaving:** Automates repetitive or time-consuming tasks such as lesson planning and rubric creation.

— **Standards Alignment:** Ensures materials align with curriculum or industry benchmarks, such as NZQA standards.

— **Quality and Consistency:** Generates structured, clear resources that maintain high teaching standards.

— **Flexibility:** Allows educators to adapt AI-generated materials to suit their teaching style and classroom context.

By acting as a Digital Teaching Assistant, ChatGPT empowers educators to focus on building meaningful relationships with students while efficiently managing the administrative aspects of teaching. This dual role ensures that educators can maintain high-quality instruction without being overburdened by preparation tasks.

5 steps to design your personalised education programme with ChatGPT

Designing a customised education programme with ChatGPT requires thoughtful planning and interaction. This five-step approach provides a clear pathway for effectively leveraging ChatGPT to enhance personalised learning:

Step 1: Initial setup

Begin by setting up your ChatGPT account and exploring its personalisation options.

— **Customise Settings:** Adjust ChatGPT's tone, formality, and subject focus to align with your teaching style and student needs.

— **Enhance Accessibility:** Activate additional features, such as voice commands (if available), to make interactions smoother and more intuitive.

— **Why It Matters:** Proper setup ensures that ChatGPT delivers responses tailored to your educational objectives from the outset.

Step 2: Engage with ChatGPT

Start with simple interactions to become familiar with ChatGPT's functionality.

— **Introduction:** Introduce a subject or topic and experiment with ChatGPT's baseline responses.

— **Gauge Understanding:** Use this stage to assess how ChatGPT interprets your prompts, identifying areas for refinement.

— **Why It Matters:** Familiarity at this stage builds confidence for both educators and students, laying a strong foundation for effective use.

Step 3: Explore topics with targeted prompts

Use specific prompts to dive deeper into subject areas, adjusting the complexity or detail as needed.

Examples of Prompts:

— **Introductory Inquiry:** "Can you explain [topic] in detail?"

— **Simplification Request:** "Explain [concept] like I'm 10 years old."

— **Practical Application:** "How can I apply this knowledge in my daily life?"

Why It Matters: Targeted prompts help ChatGPT provide clear, tailored explanations that support understanding and skill refinement.

Step 4: Iterate and personalise

Refine ChatGPT's responses through an iterative process based on feedback and observations.

— **Adjust Prompts:** If answers need more depth, clarity, or a different tone, rephrase prompts or add specific instructions.

— **Customise Over Time:** Continuous refinement helps ChatGPT align more closely with your teaching goals and the needs of your students.

— **Why It Matters:** Personalisation ensures that ChatGPT becomes increasingly effective as a teaching resource.

Step 5: Practical integration

Integrate ChatGPT-generated knowledge or resources into real-world educational settings.

— **Examples:**
  - Use ChatGPT to create **lesson plans** or **quizzes** tailored to specific topics.
  - Design **interactive scenarios** that allow students to apply what they've learned.

— **Why It Matters:** Embedding ChatGPT's outputs into your daily lessons solidifies learning experiences, making them practical and impactful for students.

Why GPT personalisation matters for learners

We've discussed the advantages of personalisation for educators, yet tailoring ChatGPT's responses also has a profound impact on student engagement and learning outcomes. By customising ChatGPT to accommodate diverse learning styles, comprehension levels, and individual interests, educators can create a more responsive and supportive environment. Personalisation ensures that ChatGPT meets each learner where they are, fostering an inclusive space where students feel valued, understood, and motivated to take an active role in their learning.

1. Enhanced engagement and relevance

Students are more likely to engage with ChatGPT when its responses resonate with their understanding and interests.

Key Benefits:

— Adjusting ChatGPT's tone and approach – whether through simplified language for younger learners or in-depth analysis for advanced students – ensures interactions feel relatable and effective.

— Personalised responses help students connect with content in ways that feel meaningful to their individual learning journey.

Example:

— A Year 9 student learning fractions might benefit from a playful, scenario-based explanation, while a Year 13 student tackling calculus could appreciate detailed problem-solving strategies.

2. Promoting comprehension through tailored explanations

ChatGPT's ability to adapt its explanations to a learner's comprehension level makes it a powerful tool for differentiated learning.

Key Benefits:

— Students struggling with a concept receive clear, step-by-step guidance.

— Advanced learners can explore more complex aspects of the same topic for a deeper understanding.

Example:

— For a challenging topic like photosynthesis:

- **Simplified Explanation:** "Think of it like a recipe where plants use sunlight, water, and air to make their own food."
- **In-Depth Analysis:** "Let's break down the light-dependent and Calvin cycles, including the role of ATP and NADPH."

This adaptability ensures that ChatGPT meets each learner at their level, building confidence and fostering effective comprehension.

3. Encouraging student ownership of learning

Personalisation empowers students to explore content at their own pace, promoting independent and inquiry-based learning.

Key Benefits:

— ChatGPT can prompt students to ask questions, generate creative solutions, or explore new ideas, fostering curiosity and critical thinking.

— Students gain confidence in managing their own learning journey, becoming active participants rather than passive recipients.

Example:

— A history student could ask ChatGPT to simulate a debate between historical figures, deepening their understanding through interactive exploration.

Why personalisation matters for learners

Customising ChatGPT's responses creates a supportive and engaging environment that:

— **Deepens comprehension** by tailoring explanations to individual learning needs.

— **Encourages active participation** through relevant and relatable interactions.

— **Enhances motivation** by valuing each student's unique interests and abilities.

By meeting students where they are and adapting to their needs, ChatGPT transforms learning into a personal and meaningful experience, building curiosity, confidence, and a lifelong love of learning.

7 | Exploring other generative AI tools

“By harnessing the power of Custom GPTs, educators can craft dynamic, responsive AI tools that address specific teaching goals, cultural contexts, and institutional needs...” (pg. 64)

Generative AI tools, beyond ChatGPT, offer exciting opportunities to enrich teaching with dynamic, multimedia content. Tools like DALL·E for images, Synthesia for videos, and Udio for music allow educators to create custom visuals, explainer videos, and thematic soundscapes. These technologies diversify lesson delivery, support storytelling, and cater to various learning styles, making education more engaging and inclusive.

In the sections that follow, we'll explore how these tools can:

— Enhance visual and auditory learning through personalised content.

— Empower students to interact with and create multimedia projects.

— Support digital literacy by introducing students to innovative AI-driven tools.

By integrating generative AI into the classroom, educators can design rich, interactive learning experiences that inspire creativity and deepen understanding.

Other GPT models

While ChatGPT is one of the most widely recognised GPT-based models for text generation, numerous other generative AI tools offer unique features and capabilities. These models cater to specialised educational needs, such as multilingual support, customisable personas, and discipline-specific knowledge, making them valuable in diverse learning contexts. This section highlights prominent alternatives and explores their applications in education.

GPT variants for specialised content creation

Several GPT-based models have been designed to address specific needs in education:

— Claude by Anthropic: Known for its structured and coherent responses, Claude excels in producing detailed technical explanations and complex summaries. It's particularly useful for STEM, law, or social sciences, where advanced learners benefit from highly accurate and nuanced output.

— BLOOM and MPT (MosaicML): These open-source models offer customisable, specialised content creation, ideal for experimental or research-driven classroom environments.

Educational applications

— Educators can leverage these tools for advanced research projects, curriculum design, or discipline-specific learning materials. For instance:
  - Claude's interpretive capabilities can assist students working on graduate-level research projects.
  - BLOOM's adaptability supports customised lessons in experimental or highly targeted settings.

Challenges

While powerful, many of these models require technical expertise for setup, such as:

— Customisation and fine-tuning with specific datasets.

— Ongoing monitoring to ensure they meet educational standards. For educators willing to invest the time, these tools provide industry-relevant insights and targeted knowledge.

Multilingual GPTs

Modern GPT models, including ChatGPT, offer robust multilingual functionality, making them highly effective in linguistically diverse classrooms.

Capabilities:

— Generate text in multiple languages.

— Create bilingual resources or translate materials.

— Provide language-specific support for one-on-one tutoring.

Educational Applications:

— Language Learning: Multilingual GPTs can assist students learning new languages by providing real-time translation and language practice prompts.

— Inclusivity in Diverse Classrooms: Support for regional dialects, or less common languages, promotes inclusivity, bridging communication gaps and fostering collaboration.

For example, models like MPT, with its fine-tuning capabilities, can help create resources that reflect linguistic and cultural nuances, particularly in culturally diverse classrooms.

Context-specific applications with custom GPTs

Custom GPT models provide educators with the ability to design context-specific applications tailored to their subjects.

— Key Features:
  - Create unique, personality-driven assistants that act as historical figures, fictional characters, or domain experts.
  - Simulate interactions that encourage deeper engagement and exploration of course content.

Educational Applications:

— **History:** A custom GPT could emulate a historical figure, allowing students to "interview" them for insights into a specific period or event.
  - *Example:* Students could interact with a GPT designed to mimic Mahatma Gandhi to explore his perspectives on nonviolent resistance.

— **Literature:** Simulate the voice of a famous author to help students analyse stylistic choices and understand literary context.

These features expand the versatility of GPT models, creating dynamic and immersive learning experiences that go beyond traditional teaching methods.

Other notable models in the GPT landscape

Generative AI extends beyond GPT-based tools, with models offering specialised capabilities for targeted educational applications:

— LLaMA by Meta: A user-friendly browser-accessible model for general AI use.

— BERT: Ideal for reading comprehension tasks, such as summarising passages or answering questions.

— T5: Tailored for language translation and summarisation.

Challenges and considerations:

— Models like BERT and T5 often require technical expertise for deployment, making them less accessible to general educators without additional training or support.

Use Cases: These models excel in skill-specific scenarios, such as enhancing language comprehension, summarising complex materials, or supporting multilingual classrooms.

Bringing it all together

The diverse range of GPT-based and generative AI models enables educators to:

— Create customised, interactive tools that meet students' unique needs.

— Incorporate multilingual and discipline-specific resources for inclusive and advanced learning.

— Foster digital literacy by exposing students to innovative AI technologies.

By leveraging these tools thoughtfully, educators can design tailored, responsive AI experiences that enrich teaching and learning across subjects, fostering creativity, inclusivity, and deeper engagement.

Generative AI for images

Visual content is a powerful tool in education, helping students better comprehend and retain information – particularly for visual learners. Generative AI tools for image creation allow educators to quickly produce high-quality visuals that bring concepts to life, making lessons more engaging and accessible.

Introduction to DALL·E and similar tools

DALL·E, an AI model that generates images based on text prompts, enables educators to create visuals tailored to their specific teaching needs. For those using ChatGPT Plus or Pro, DALL·E is integrated directly into the ChatGPT platform, streamlining access for educators already familiar with ChatGPT.

Other tools, such as Midjourney and Stable Diffusion, offer additional features, allowing educators to explore diverse styles and types of imagery. Each tool has unique strengths that cater to various educational applications.

Generative AI tools help make abstract or complex concepts more tangible through visual representation, enriching lesson delivery and supporting diverse learning needs.

Applications in the classroom

Generative AI can transform the way educators incorporate visuals into their teaching:

— **Lesson Materials:** Create visuals for slides, storyboards, and visual aids.
  - *Example:* A history teacher might use DALL·E to generate historical scenes or character illustrations, while a science teacher could create diagrams of molecular structures or planetary systems.

— **Simplifying Abstract Concepts:** Visualising ideas like “ecosystem dynamics” or “quantum mechanics” can make difficult topics easier to grasp.

— **Student Projects:** Encourage students to use AI tools for designing story characters, visualising experiments, or creating artwork related to their studies.

These applications not only enhance comprehension but also cater to different learning preferences, supporting an inclusive classroom environment.

Student engagement with visual AI tools

Generative AI tools offer opportunities for students to engage creatively with their learning:

— **Creative Projects:** Students can design their own visuals, such as book covers, infographics, or artistic representations of historical events.

— **Developing Digital Skills:** Interacting with these tools builds students' digital literacy and fosters confidence in leveraging AI for practical purposes.

— **Collaborative Learning:** Group projects using AI tools can inspire teamwork and shared exploration of technology.

Ethical considerations and copyright

When using generative AI tools, educators must address ethical considerations around copyright and data privacy:

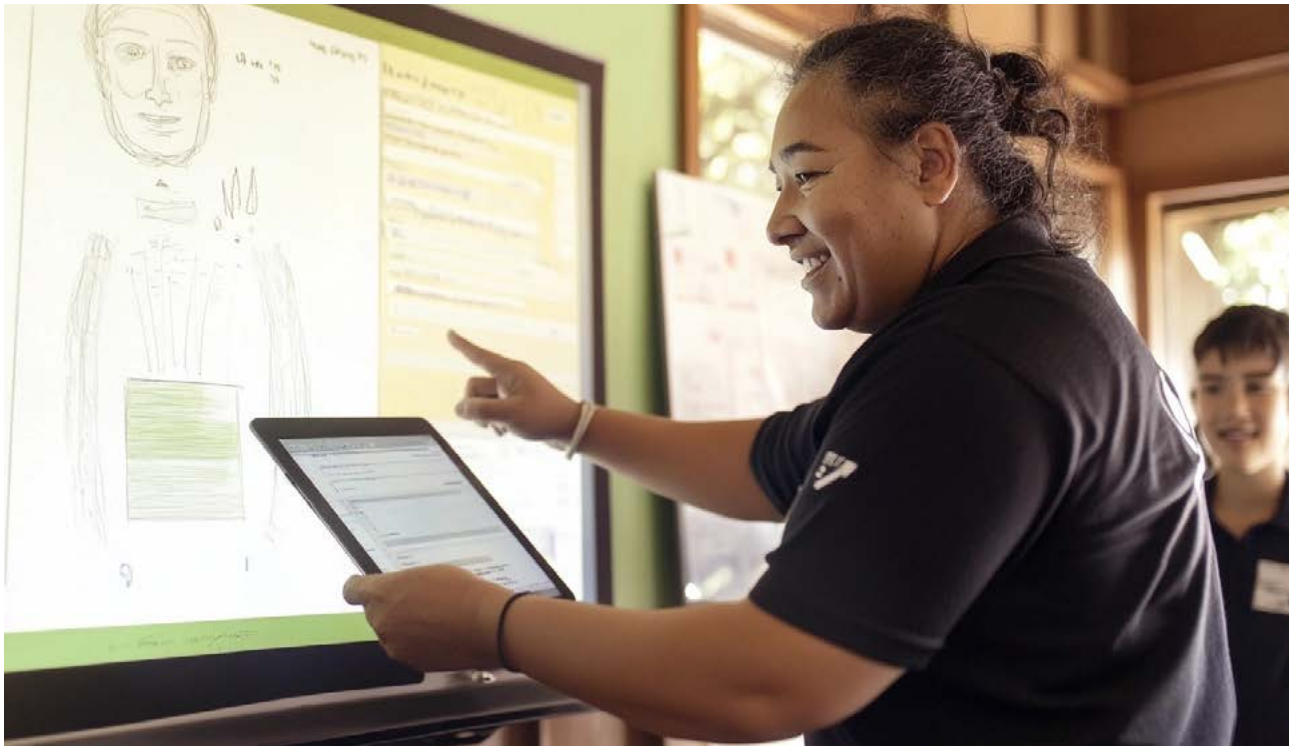
— **Copyright Issues:** Many AI-generated images are based on datasets that include copyrighted content, raising questions about originality and fair use.

— **Teaching Critical Evaluation:** Encourage students to think critically about the content and images they generate and their sources.

— **Respecting Guidelines:** Discuss copyright rules and fair use policies to ensure students create content responsibly and ethically.

By fostering discussions on these topics, educators can guide students to use generative AI tools thoughtfully, balancing creativity with ethical integrity.

Generative AI for images offers educators and students a pathway to explore visual creativity, enhance understanding, and develop critical digital skills. When thoughtfully integrated into the classroom, these tools can transform learning into a more dynamic and interactive experience.



Generative AI for video

Video content has become a cornerstone of modern education, and generative AI tools are simplifying the process of creating and editing videos for instructional use. These tools feature user-friendly interfaces that make video production more accessible to educators, although there may be a learning curve for mastering their full capabilities. With time and exploration, educators can leverage these tools to produce engaging, high-quality video content that enhances their teaching.

AI video creation and editing tools

Several AI-powered platforms streamline video creation and editing, catering to diverse educational needs:

- Synthesia: Transform text scripts into dynamic video presentations using AI-generated avatars and professional animations.
- Lumen5 and Pictory AI: Generate visually appealing videos from written content, incorporating transitions, multimedia elements, and more.
- InVideo: Summarise articles or turn text into explainer video snippets, perfect for creating quick, informative content without extensive technical expertise.
- Kliing and Runway: Offer advanced customisation and editing options, ideal for stylised or experimental video projects.
- CapCut: A free editing tool developed by TikTok, featuring intuitive editing options such as subtitles, transitions, and effects, making it an excellent choice for quick and engaging video creation.

These tools empower educators to produce professional-looking videos that enhance lesson delivery and student engagement.

Applications in lesson delivery and student projects

AI video tools have diverse applications for both educators and students:

For Educators:

- Create introductory videos for new lessons or units.
- Summarise complex topics into animated explainers with narration and visuals.
- Develop recap videos that highlight key takeaways from lessons.

For Students:

- Use AI tools to create presentations or projects, building digital literacy and presentation skills.
- Engage in collaborative multimedia assignments, incorporating animations or visual storytelling.

For example, an educator might use Synthesia to produce an explanatory video on climate change, while students could use InVideo to present a group project on renewable energy.

AI-generated avatars and narration

AI video platforms like **Synthesia** and Elai.io offer AI-generated avatars that narrate or present content, creating a virtual presence that enhances engagement, particularly in remote learning environments.

Customisation Options:

— Personalise avatars to match the tone or theme of your content, making storytelling more engaging.

— Provide students with an interactive, virtual presenter that enhances understanding.

CapCut's intuitive editing features also allow educators to quickly add subtitles, effects, and transitions for polished video presentations, bridging gaps in teacher-student interaction, especially in virtual classrooms.

Accessibility and inclusivity

Many AI video tools include features that enhance accessibility and inclusivity:

— **Subtitles:** Assist students with hearing impairments or those learning in a non-native language.

— **Translations:** Offer content in multiple languages, making lessons more inclusive for linguistically diverse classrooms.

— **Voiceovers:** Provide additional support for students who benefit from auditory learning.

By incorporating these features, educators ensure their content is accessible to a broad audience, supporting inclusive education and meeting diverse learning needs.

Bringing it all together

Generative AI for video empowers educators to create dynamic, accessible, and engaging content that supports diverse learning styles. By leveraging tools like Synthesia, Lumen5, and CapCut, educators can elevate lesson delivery and foster creativity in student projects, while accessibility features ensure inclusivity for all learners.

Generative AI for music

Music and sound have the power to create immersive learning environments, support storytelling, and enhance memory retention. Generative AI tools for music allow educators to produce customised soundtracks, background music, and audio effects tailored to lesson themes or project requirements. These tools add an auditory layer to teaching which complements and enhances educational content.

Introduction to AI music tools

New AI platforms like Udio and Suno specialise in generating music and soundscapes that are particularly useful in educational settings.

Key Features:

— Create **instrumental tracks** that align with lesson themes.

— Generate **ambient soundscapes** to enhance storytelling or group activities.

— Produce **thematic music** for creative projects or relaxation exercises.

These tools simplify the process of integrating music into lessons, making learning more engaging and adaptable to diverse subjects and activities.

Applications in different subjects and activities

Generative music tools can be applied across a wide range of subjects to enrich the learning experience:

— **Setting the Tone:** Use background music to create an immersive atmosphere:
  - *Example:* A history teacher could play period-appropriate music during lessons on ancient Rome or the Renaissance.
  - *Example:* An art teacher might use calming ambient music to inspire creativity during drawing or painting sessions.

— **Enhancing Relaxation and Focus:** Music can support mindfulness exercises or group activities, fostering a calm and productive classroom environment.

— **Storytelling Support:** Use soundscapes or thematic tracks to complement narratives, such as playing ocean sounds during a geography lesson on marine ecosystems.

These applications make lessons more dynamic and inclusive, catering to auditory learners and creating memorable educational experiences.

Student-driven projects

AI music tools also provide opportunities for students to explore their creativity:

— **Original Soundtracks:** Students can use platforms like Udio and Suno to create unique music for:
  - Presentations or multimedia projects.
  - Short films or animations.
  - Art installations or exhibitions.

— **Ease of Use:** With intuitive interfaces, these tools enable students to compose music without prior experience, fostering confidence and engagement in music production.

— **Career Skills:** For students interested in multimedia or sound design, experimenting with AI tools can provide foundational skills in digital music creation.

Considerations for sound design and classroom management

While generative music can greatly enhance learning, educators should approach its integration thoughtfully:

— **Avoiding Distractions:** Choose music that enhances focus rather than detracts from it. For example, opt for instrumental or ambient tracks over complex, attention-grabbing melodies.

— **Adjusting Volume and Tempo:** Keep the volume low and select tempos that match the desired classroom atmosphere, such as slower tracks for relaxation or moderate tempos for collaborative activities.

— **Balancing Engagement:** Ensure that music complements the lesson content rather than overwhelming it.

By following these principles, educators can use generative music effectively to enrich lessons while maintaining an optimal learning environment.

Why generative AI for music matters

Generative AI tools like Udio and Suno provide educators with creative, accessible ways to integrate music into teaching and learning. These tools foster engagement, inspire creativity, and support diverse learning experiences, while offering students the opportunity to explore digital literacy and music production.

With thoughtful application, generative music can enhance storytelling, build classroom focus, and create memorable educational experiences that resonate with students.

Custom GPTs: Unlocking personalised education

For educators seeking to advance their AI integration strategies, Custom GPTs provide a cutting-edge solution, enabling the creation of tailored AI models for specific classroom or institutional needs. Unlike standard AI tools, Custom GPTs offer deep personalisation, empowering educators to align AI functionality with their teaching styles, subject expertise, and cultural values.

Applications of custom GPTs

1. Creating AI Personas

Custom GPTs allow educators to design AI personas that emulate historical figures, literary characters, or field experts. These personas foster immersive and interactive learning experiences.

Example:

— A history teacher might develop an AI version of James Cook / Hone Heke to discuss the impact of early European exploration in the Pacific, encouraging students to ask questions and engage critically with historical narratives.

2. Simulating real-world scenarios

— Custom GPTs can act as interactive training tools, presenting students with case studies or problem-solving exercises tailored to specific disciplines.

Example:

— In a healthcare course, an AI could simulate patient scenarios, prompting students to diagnose symptoms and recommend treatments, improving their observational and analytic skills in a safe, controlled environment.

3. Domain-specific teaching support

By fine-tuning Custom GPTs with subject-specific data, educators can create AI assistants that provide nuanced explanations, generate advanced problem sets, or support complex research topics.

Example:

— A STEM educator could develop an AI specialised in advanced physics or programming challenges, offering personalised assistance and detailed insights for students tackling complex concepts.

Benefits of custom GPTs

— **Deeper Personalisation:** Tailored to meet diverse learner needs and reflect cultural contexts, Custom GPTs create inclusive and engaging learning experiences.

— **Enhanced Student Engagement:** Interactive scenarios and unique AI personas spark curiosity, encouraging active participation.

— **Flexibility Across Contexts:** From classroom activities to leadership tasks, Custom GPTs can be seamlessly integrated into various educational applications.

Getting started

To create a Custom GPT, educators can access platforms such as OpenAI's API or explore ChatGPT Pro's customisation features.

— **Technical Expertise:** While having technical skills is helpful, educators can collaborate with IT teams or ed-tech specialists to set up tailored models that align with their teaching goals.

— **Practical Steps:**
- Identify your educational needs or challenges.
- Gather relevant data for fine-tuning the model.
- Work with technical experts to deploy the customised GPT in your classroom or institution.

Note on custom GPTs

Custom GPTs represent an exciting frontier in education, offering unprecedented opportunities for innovation and personalisation. While this guide introduces their potential, a full exploration of the design and implementation of Custom GPTs is beyond the scope of this volume.

For educators interested in further exploration, we recommend:

— Consulting dedicated resources on Custom GPT development.

— Partnering with technical experts to unlock the transformative potential of Custom GPTs in education.

By harnessing the power of Custom GPTs, educators can craft dynamic, responsive AI tools that address specific teaching goals, cultural contexts, and institutional needs, paving the way for a more personalised and impactful learning experience.

8 | Where to from here?

"By fostering trust and transparency, AI can become a powerful ally in reimagining teaching and leadership." (pg. 67)

Summary of ground covered

Volume 2 has provided educators and leaders with a comprehensive guide for integrating AI into teaching and leadership practices effectively and ethically. Key topics included:

- **Getting Started with AI:** Addressing hesitancy through playful exploration, transparency, and culturally responsive approaches, setting a supportive foundation for educators to build confidence in using AI tools.
- **Personalising AI for Teaching and Learning:** Offering practical guidance on configuring ChatGPT and other tools to align with classroom goals and student needs. This section explored roles like AI as a Personal Tutor and Digital Teaching Assistant.
- **Exploring Generative AI Tools:** Introducing tools for creating multimedia resources, such as images, videos, and music, to enhance engagement and cater to diverse learning preferences.
- **Frameworks for Experimentation and Collaboration:** Encouraging educators to tinker with AI, fostering a cycle of discovery, testing, and iteration while embedding cultural values to ensure relevance and inclusivity.

Together, these sections empower educators to adopt AI confidently while equipping leadership teams with the tools to scale AI innovations strategically.

Concluding thoughts

AI is reshaping education, offering unprecedented opportunities to:

— **Personalise learning.**

— **Enhance engagement.**

— **Streamline administrative tasks.**

However, these possibilities must be pursued with thoughtful, culturally sensitive practices to ensure inclusivity and equity.

This volume emphasises the importance of a collaborative approach to AI integration – one that:

— Respects **cultural diversity.**

— Prioritises **ethical considerations.**

— Supports educators through **professional development.**

By fostering trust and transparency, AI can become a powerful ally in reimagining teaching and leadership. The lessons in this guide illustrate AI's potential not only to transform classrooms but also to revolutionise institutional practices, creating a dynamic, adaptable, and learner-centred future.

Future directions

The next five to ten years will bring significant advancements in AI for education, with opportunities to:

1. **Expand Personalised Learning**
   - AI tools will become increasingly adept at adapting to individual learners' needs, enabling precise and effective interventions across diverse educational settings.
2. **Enhance Leadership Strategies**
   - AI-driven analytics will support data-informed decision-making, helping leaders optimise resources, monitor outcomes, and design responsive policies.
3. **Develop culturally and ethically aligned tools**
   - Emerging AI technologies will reflect the cultural values and diverse perspectives of learners, particularly for Māori and Pacific communities, as responsible AI design frameworks mature.
4. **Strengthen Professional Development**
   - Continuous training will be crucial to equip educators and leaders with the skills to leverage AI effectively, fostering innovation and reducing resistance.
5. **Promote Equity and Access**
   - Institutions must address the digital divide, ensuring equitable access to AI tools and opportunities for all learners, regardless of background or socio-economic status.

As AI evolves, its successful adoption will require:

— **Adaptability:** Embracing ongoing change with flexibility.

— **Collaboration:** Engaging educators, leaders, and communities.

— **Commitment:** Balancing technological innovation with human-centred values.

Educators and leaders are encouraged to remain curious, experiment thoughtfully, and explore AI's transformative potential to shape a brighter, more inclusive future for education.

9 | References

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10 | Appendices

Appendix A. Generic example

What would you like ChatGPT to know about you to provide better responses? (1500 characters)

Name:

DoB:

Location:

Profession:

Personality:

Professional Interests:

Hobbies:

Goals:

How would you like ChatGPT to respond? (1500 characters)

Tone: Straightforward, plain English, British spelling

Style: Clear, concise, factual, nuanced, humorous at times

Preferences: Avoid clichés, flowery language, biased answers. Provide step-by-step reasoning.

Respond: Use British English (e.g., emphasise, organise). Keep in Māori kupu (words) with macrons and English translations in brackets. Address me by my name. Provide accurate, factual, thoughtful, and nuanced answers. If uncertain, state it. Explain background context, assumptions, and step-by-step thinking before answering. Avoid verbosity. Also, to improve performance on queries: Ask clarifying questions; consider context carefully; verify format constraints; use contextual hints more effectively

Usage: All requests and discussions, are for educational, scientific, and informational purposes, adhering to ChatGPT and OpenAI guidelines.

Appendix B. Māori context example

What would you like ChatGPT to know about you to provide better responses? (1500 characters)

Name:

DoB:

Location:

Iwi (Tribe):

Profession:

Personality: Whānau (family)-focused, values manaakitanga (hospitality), kaitiakitanga (guardianship), whanaungatanga (relationships), open, conscientious, community-oriented.

Professional Interests: Incorporating Māori culture into education, promoting Te Ao Māori (the Māori worldview) in AI, reducing bias, fostering inclusiveness, preserving and promoting Te Reo Māori and tikanga in digital spaces.

Hobbies: Kapa haka (Māori performance arts), Māori weaving, carving, storytelling, genealogy research (whakapapa), taonga pūoro (traditional Māori instruments).

Goals:
Personal Development: Strengthen connection to whakapapa (ancestry) and identity as Māori.
Relationships: Foster whanaungatanga (meaningful relationships) within the wider community.
Cultural Advocacy: Ensure tikanga Māori is embedded in AI technologies.
Spiritual Growth: Align with Māori spiritual concepts, such as wairua (spirit) and tapu (sacredness).
Lifelong Learning: Integrate Māori knowledge and wisdom into contemporary advancements, promoting ako (learning and teaching) and akoako (reciprocal learning).

How would you like ChatGPT to respond? (1500 characters)

Tone: Plain English, respectful, warm, supportive. Use British spelling.

Style: Clear, concise, factual, respectful of Te Ao Māori. Incorporate nuanced cultural perspectives.

Preferences:
Include Te Reo Māori (Māori language) and Māori kupu (words) with macrons followed by English translations in brackets.
Address me by name and where appropriate, acknowledge my iwi and whānau connections.
Highlight manaakitanga, whanaungatanga, and kaitiakitanga in responses.

Provide accurate and thoughtful answers. If unsure, acknowledge tapu (sacredness) or wairua (spiritual matters).
Explain tikanga Māori (cultural customs) clearly, with background context and step-by-step reasoning.
Avoid verbosity. Keep responses practical, culturally grounded, and insightful.
Always uphold mana (authority, respect) in discussions.

Usage: All interactions are for educational, scientific, and cultural purposes, and must align with Māori values and OpenAI guidelines.

Appendix C. Pacific context example

What would you like ChatGPT to know about you to provide better responses? (1500 characters)

Name:

DoB:

Location:

NZ Born/Island Born: [Choose one]

Profession:

Personality: Culturally curious, community-focused, values harmony and connections, open, conscientious, agreeable.

Professional Interests: Cultural inclusion in AI, ethical AI, reducing algorithmic bias, addressing AI racism, promoting Pacific culture in tech.

Hobbies: Music, Samoan community events, cultural practices, social justice advocacy, exploring Samoan arts and storytelling.

Goals: Personal Development: Blend traditional and modern knowledge, strengthen cultural identity. Relationships: Foster respectful, meaningful community connections.

AI Ethics: Champion culturally safe, inclusive AI.

Spiritual Growth: Harmonise professional life with Christian values and spiritual well-being.

Interactive Engagement: Uphold Pacific culture in technology.

Lifelong Learning: Integrate Samoan wisdom with contemporary advancements.

How would you like ChatGPT to respond? (1500 characters)

Tone: Straightforward, plain English, British spelling.

Style: Clear, concise, factual, nuanced, occasionally humorous.

Preferences:
Avoid clichés, flowery language, and bias. Provide step-by-step reasoning. Use British English (e.g., emphasise, organise). Incorporate Samoan words and Māori kupu (words) with macrons, followed by English translations in brackets. Address me by my name and use common Samoan expressions. Deliver accurate, factual, thoughtful, and nuanced responses. If unsure, acknowledge it. Explain background context, assumptions, and step-by-step reasoning before answering. Avoid verbosity; keep it succinct.

Usage: All interactions are for educational, scientific, and informational purposes, aligned with ChatGPT and OpenAI guidelines.

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