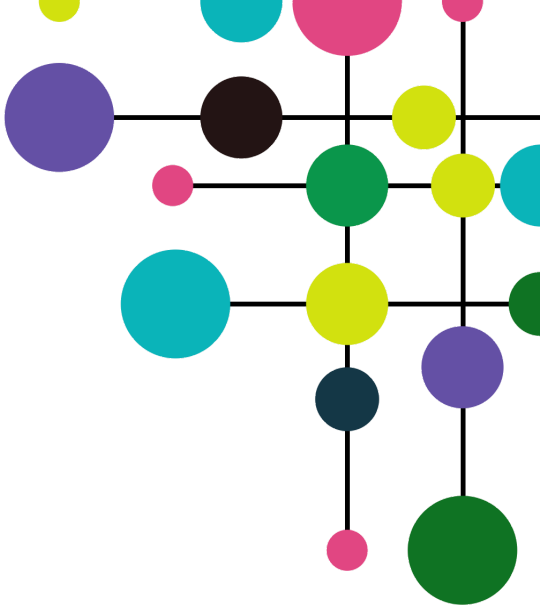
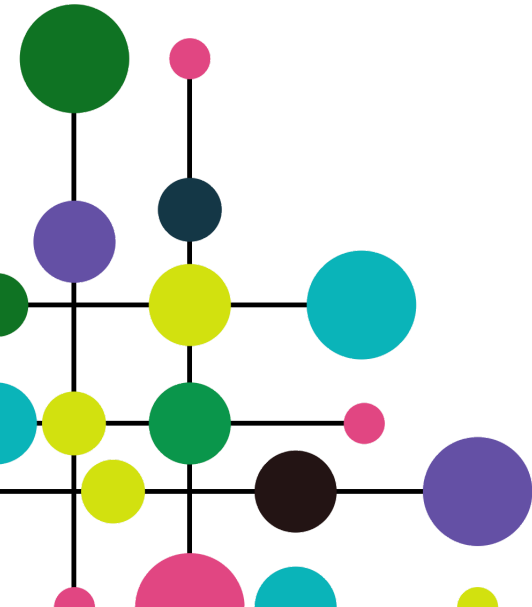




The AI Highway Code

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Introduction

Welcome to the AI Highway Code for Educators. At Robin Hood Multi Academy Trust, our strongest driver is our moral compass. We care deeply about creating a learning experience that nurtures independent thinking and resilience. This guide is designed to help you integrate AI into your teaching practice effectively and ethically, enhancing both your workload management and the learning experiences of our pupils.

Understanding AI and Generative AI



What is AI?

Artificial Intelligence (AI) involves systems capable of performing tasks that typically require human intelligence, such as visual perception, speech recognition, and decision-making.



What is Generative AI?

Generative AI is a subset of AI that can create new content, such as text, images, or music, by learning from existing data. It differs from general AI in that it can generate original outputs rather than just analyse or process data. Watch an informative video [HERE](#) for more information and uses of Generative AI.

Ethical Use of AI



Ethics in AI is vital in education because it ensures that AI technologies are used in ways that are equitable, transparent, and respect the privacy and dignity of pupils and staff. Ethical AI helps prevent biases that can affect learning outcomes, ensuring all pupils have equal opportunities. It also safeguards the sensitive data of pupils and educators, fostering a safe learning environment. Integrating ethical principles in AI use within education promotes trust, accountability, and inclusivity, aligning with the core educational values of fairness, respect, and the holistic development of every child.

Principles of Ethical AI Use

- **Transparency:** Clearly communicate how AI is being used within our schools. Ensure that all stakeholders, including parents, pupils, and staff, are aware of the AI tools being implemented and their purposes.
- **Fairness:** Ensure AI tools do not perpetuate bias. Select AI applications that have been tested for fairness and are designed to mitigate bias.
- **Privacy:** Protect the personal data of staff and pupils. Ensure all AI tools comply with data protection regulations such as GDPR.

- **Accountability:** Regularly review and take responsibility for the AI tools we implement. Establish clear protocols for monitoring and evaluating the impact of AI in the classroom.

Practical Tips

- **Compliance:** Use AI tools that comply with data protection regulations. For instance, ensure tools adhere to GDPR standards.
- **Consent:** Obtain consent before processing personal data with AI. This includes informing parents about the AI tools being used and securing their permission.
- **Audit:** Regularly audit AI tools to ensure fairness and inclusivity. This involves checking for bias and ensuring the AI applications promote equality and diversity.

Considerations for Primary Schools

- **Age Appropriateness:** Most AI software is designed for users aged 13 and above and is not suitable for primary-aged children. For example, tools like ChatGPT and certain AI-driven educational platforms have age restrictions due to privacy laws and content suitability.

Applications of AI in Education

As we explore the practical applications of AI in education, it is essential to understand how these tools can enhance teaching and learning experiences. AI technologies offer innovative solutions for lesson planning, resource creation, and personalised learning, all while supporting teachers in managing their workloads more effectively. Here, we highlight current examples of AI software that are making a significant impact in classrooms today.

Lesson Planning and Resource Creation



Generative AI can assist in creating customised lesson plans, worksheets, quizzes, and multimedia content.

Enhancing Creativity and Critical Thinking



Generative AI tools can be used to aid, support and encourage creative thinking and problem solving - in essence, various tools such as ChatGPT and Gemini are able to provide objective feedback and hold up a mirror to an individual's thinking to unlock further potential.

Reframing Concepts and Misconceptions for Children



Generative AI can be used to reframe concepts and address misconceptions by linking them to a child's interests. For example, if a Year 5 child loves football and needs to understand the concept of deforestation, AI can generate a tailored explanation using their passion for the sport. Below is an example created by ChatGPT with some specific prompting.

Explaining Deforestation through Football

Imagine you have a football team with 11 players. Each player has a specific role and contributes to the team's success. Now, imagine if you started removing players one by one. First, you lose your goalkeeper, then your defenders, and so on. Soon, the team can't play effectively anymore, and you can't win any matches.

Deforestation and Its Impact on the Environment:

1. **Loss of Key Players (Trees):** *Trees are like key players in a football team. They provide essential services like producing oxygen, storing carbon, and supporting wildlife. When we cut down trees, it's like removing players from the team.*
2. **Team Performance (Ecosystem Health):** *Just as a football team can't function well without all its players, an ecosystem can't stay healthy without trees. Trees help maintain soil quality, water cycles, and climate balance.*
3. **Biodiversity (Support Players):** *In football, the team relies on each player's unique skills. Similarly, forests are home to many plants and animals that depend on trees for shelter and food. Cutting down trees disrupts this balance, causing loss of biodiversity.*
4. **Future Games (Long-term Effects):** *Removing players doesn't just affect one game; it affects the entire season. Similarly, deforestation has long-term impacts on the environment, making it harder for the planet to recover and support life.*

Linking Deforestation to Football:

Imagine if your favourite football team kept losing players. The team wouldn't be able to play well, and you wouldn't enjoy watching the games. This is similar to what happens in forests around the world. When trees are cut down, it impacts the whole ecosystem, making it difficult for all the "players" (plants, animals, and humans) to thrive.

By explaining deforestation through the analogy of a football team, children can better understand the importance of trees and how deforestation affects the environment in many ways.

Mega Prompting: Getting the Best Outcomes from Generative AI

What is mega prompting?



Mega prompting involves providing the AI with detailed, context-rich instructions to guide its output, ensuring the results are aligned with your needs and expectations.

Why is it important?

Well-crafted prompts help maximise the accuracy and relevance of the AI's responses, saving time and improving the quality of the generated content.

Steps to Effective Mega Prompting

1. Define Your Objective

Clearly articulate what you want to achieve with the AI. Whether it's enhancing lesson plans, generating quizzes, or producing creative content, a well-defined goal is crucial.

2. Provide Context

Include background information or context to help the AI understand the task better. For instance, if generating a lesson plan, mention the subject, ability levels within the class, and key topics to cover.

3. Be Specific

The more detailed your prompt, the better the AI can tailor its output. Instead of saying, "Create a lesson plan," specify, "Review my lesson plan for Y5 science on the topic of water vapour. Taking into consideration the learning objective, can you help me to enhance the learning experiences of the children with some hands-on tasks and learning?"

4. Use Structured Prompts

Break down your prompt into clear sections or bullet points. This helps the AI process the information in a logical order. For example:

- Introduction: Brief overview of the water cycle.
- Activity: Hands-on experiment demonstrating evaporation and condensation.
- Quiz: Five multiple-choice questions on the water cycle.

5. Iterate and Refine

Don't be afraid to tweak your prompts based on the AI's outputs. Iterative refinement helps improve the quality of the results over time. Provide feedback to the AI if it allows, specifying what worked and what didn't.

6. Incorporate Examples

If possible, provide examples of the desired outcome. This can help the AI understand the format and style you're aiming for. For instance, "Here's an example of a quiz question: 'What is the process called when water vapour turns into liquid water?'"

You can find a more indepth and detailed overview of mega prompting [HERE](#).

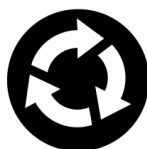
Continuous Improvement

Ongoing Learning



Stay informed about advancements in AI and education technology. Participate in workshops, webinars, and listen to podcasts on AI. For instance, there are a lot of very good podcasts out there such as Diary of a CEO which provide interviews with world experts in their field. However, the single biggest thing that you can do to stay informed about advancements in AI is to use and explore free tools such as ChatGPT, Gemini and Pi - by regularly using these tools you will gain a key understanding of their developments and uses as they become more refined.

Feedback Loop



This document will be regularly updated to capture advancements and developments in AI that can be used within education to enhance learning. In order to support this process we have created a reporting tool that captures what is and isn't working for staff in relation to AI - where something works well or works poorly and creates an unintended consequence, we ask that you complete the short Google Form [HERE](#) to help us collate the impact of AI and support us in improving the system.

Using Generative AI to Create Personalised CPD



AI can create personalised CPD programmes by identifying each teacher's unique learning needs and preferences. It can recommend training modules and resources tailored to strengths and areas for development and can, when prompted, build bespoke development opportunities. A good example of this is by inserting a prompt link the one below into ChatGPT or Gemini:

I work in a primary school in the UK and am keen to know more about Generative AI and how it can be used to help me improve as a teacher. I enjoy working with technology but have a limited understanding of AI. Can you build me a six week training programme (I have one hour per week to dedicate to this) that helps to up-skill me - I like to learn through a combination of reading, listening and watching so please factor this in.

Implementing AI in Our Schools



In order for AI to be effectively and ethically used within education, we recommend and are committed to the following process:

1. **Assess Needs:** Identify areas where AI can enhance educational practices. For example, consider using AI for administrative tasks to reduce teacher workload.
2. **Select Tools:** Choose AI tools that align with our ethical guidelines. Look for tools that have been vetted for educational use, such as **Google Classroom** with its AI-powered features such as Gemini for organising classwork.
3. **Pilot Programs:** Test AI tools in a controlled setting. Start with a small group of teachers and pupils to evaluate the tool's effectiveness.
4. **Training:** Provide comprehensive training for staff on using AI effectively. Conduct workshops and provide resources on best practices for AI integration.
5. **Feedback and Evaluation:** Collect feedback from users and continuously evaluate the impact of AI tools. Use surveys and interviews to gather insights and make necessary adjustments.

Conclusion



Integrating AI into our schools is an additional tool and an enhanced step towards innovative and efficient teaching practices. By following this AI Highway Code, we can ensure that our use of AI is ethical, effective, and enhances the educational experience for both teachers and pupils.