

Leveraging GenAI in Teaching Learning

Guided & Mentored by Expert Facilitator

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Phase 1

It wasn't your usual teacher workshop.

There were no bulleted notes on the board, no generic lectures on "digital transformation," and certainly no yawns.

Instead, what unfolded was a room buzzing with curiosity. Heads tilted toward screens. Teachers exchanging glances that said — *"Wait, can it really do that?"* Laughter when a poem was rewritten as a rap. A pause of amazement when an essay rubric appeared on screen — tailored, clear, ready to use.

This was **"Rebooting Education with GenAI"**, an orientation that felt less like a training session and more like an awakening.

From Apprehension to Activation

At the heart of the session was a simple question — *Can AI make teaching better, not just faster?*

Most teachers came in with a cautious curiosity. Some had heard of ChatGPT from students, others had tried it once or twice, and a few were openly skeptical.

But as the session progressed, caution gave way to wonder.

In one moment, a science teacher watched a detailed explanation of photosynthesis transform into a simple metaphor about a food-making factory. In another, a social science teacher saw how a textbook question — "Describe the events of the Dandi March" — could be reimagined as a provocative discussion starter:

"If the Dandi March happened today, how would it unfold in the age of Instagram and viral videos?"

Suddenly, the boundaries of what a lesson could look like — stretched wide open.

A Tale of Two Learners

The orientation didn't start with tools. It started with students.

A slide flashed on the screen: **Student A vs Student B.**

- One asked questions, made mistakes, and created things.
- The other memorised model answers and aced tests — but rarely ventured beyond.

It was an invitation — *not just to adopt a tool, but to reflect on the kind of learner we were nurturing.* And in doing so, to reflect on the kind of teacher we were becoming.

What GenAI Did in the Room

It's hard to explain the shift unless you saw it.

- A math teacher whispered, "This is *exactly* the kind of real-life example I needed for fractions."
- An English teacher giggled when ChatGPT turned a Class 7 grammar drill into a detective game.
- Heads nodded when the facilitator said, *"It's not just about getting answers faster. It's about asking better questions."*

The room felt alive — not just with tech, but with **possibility**.

A Tool for Every Kind of Learner

The session moved gently into learning design. But this time, it didn't start with a syllabus — it started with the child.

What does a **visual learner** need to understand the water cycle?

What would an **auditory learner** prefer?

Could a **kinesthetic learner** act it out instead?

With each profile, teachers saw how a single ChatGPT prompt could birth:

- an infographic
- a podcast script
- a classroom role-play

And it wasn't theoretical. They tried it. They wrote prompts. And they smiled when the results appeared — not in hours, but in seconds.

Discovering Your “GenAI DNA”

Before closing, the workshop turned inward again — this time with the results of a self-check.

Teachers had taken a reflective quiz at the beginning of the workshop to find their “**GenAI DNA**” — were they Digital Pioneers, Explorers, Beginners?

The results were grounding:

- Only **10%** were already confident enough to lead integration - **Digital Pioneers**
- Nearly **half** were **Digital Explorers** — eager, but needing guided support
- And a surprising **1%** identified as **Digital Beginners** — facing the starting line of digital literacy

It was a reminder that any transformation must begin with where people *are*, not where we expect them to be.

The Closing Thought

The workshop didn't end with a task list. It ended with a question:

“What’s one part of your lesson that could use a little help — a concept that’s tricky to explain, a topic that never quite excites your class?”

And then came the nudge:

“Try redesigning just that one piece — with GenAI as your thinking partner.”

No pressure. Just play.

The room emptied slowly — not because it dragged, but because no one really wanted it to end. Teachers stayed back, trying one last prompt.

“Can you turn the Preamble of the Constitution into a rap?” one asked.

The answer came in under 10 seconds. It rhymed. It made sense. And yes, it sparked a grin.

Teacher Quotes:

“One of the most exciting aspects of the workshop was seeing firsthand how GenAI tools can support differentiated instruction and reduce teacher workload without compromising educational quality. I was particularly inspired by the live demonstrations of how AI can assist in generating customized lesson plans, formative assessments, and student feedback instantly, tailored to specific learning levels and outcomes.”

“I found the hands-on exercises with ChatGPT to be incredibly helpful. Being able to experiment with the tool and see its capabilities firsthand was really exciting. What I found most exciting was the potential applications of GenAI in our daily work. The examples shared during the workshop opened up new possibilities for automation and efficiency.”

Phase 2

Next STEP: Designing Lessons with GenAI — One Subject at a Time

If the orientation was about opening doors, the follow-up workshops were about stepping through them — into the heart of classrooms, into real lessons, into the messiness and magic of teaching.

Over four immersive sessions, teachers gathered not by grade or designation, but by subject — **Mathematics, Sciences, Social Sciences, and Languages** — to dive deeper into designing AI-supported lessons. Each session began with a warm, familiar energy — not of authority, but of **co-creation**.

Where We Started: Every Learner Is Different

Before we talked about GenAI or lesson plans, we talked about learners. A simple but powerful question set the tone:

“How do you teach the same concept to a child who learns by watching... and to one who learns by moving?”

And that’s when the room met the **Learning Styles Map** — a vibrant guide that helped teachers visualise how content could land differently for **visual, auditory, kinesthetic, reflective, or collaborative learners**.

For every teaching strategy, there were suggestions:

- For the **visual learner**: infographics, color-coded notes, and drag-and-drop digital tools.
- For the **auditory learner**: podcast-style explainers, read-alouds, and Socratic circles.
- For the **kinesthetic learner**: role-plays, scavenger hunts, and tactile sorting games.

The idea wasn’t to check boxes. It was to **see students again** — not as a batch, but as individuals with wildly different ways of understanding the world.

Then Came the Canvas: The Lesson Plan Template

Each teacher received a new kind of planning tool — not a rigid format, but a flexible frame. A place where they could ask:

- What learning outcome matters most?
- What kind of learner am I designing for?
- Which part of the lesson could use some GenAI support — the hook, the explanation, the activity?

And then, embedded within the template were little AI cues:

- **Prompt this** to create a riddle
- **Try this** to generate a differentiated worksheet
- **Use this** to spark reflection

It didn't feel like replacing their style. It felt like **sharpening their tools**.

“What Can I Ask the AI?” — Enter the Prompt Banks

Each subject group was handed its own curated **Prompt Bank** — not as a list of instructions, but as a **starting point for imagination**.

◆ For Math Teachers:

They saw how a dry formula could turn into a story.

“Explain the concept of fractions using a cricket match.”

“Design a shopping-based word problem to teach percentages.”

Math became **movement and metaphor**. Concepts were made visible, even playful.

For Science Teachers:

Prompts helped shift from explaining content to **designing curiosity**.

“Create 3 ‘what if’ questions to introduce combustion.”

“Describe osmosis using a comic strip scenario.”

There were even templates for designing hands-on experiments using household items — safe, scalable, and student-friendly.

For Social Science Teachers:

History and civics came alive.

“Write a diary entry by a student at Jallianwala Bagh.”

“Design a map quiz on Indian rivers with clues.”

“Frame a classroom debate on: Should students have more rights or responsibilities?”

This wasn't just content. It was **connection, emotion, empathy**.

For Language Teachers:

From reflective journaling to skit writing, prompts encouraged students to **step into the shoes of characters**, explore grammar in context, or turn a chapter's message into a poem.

“Convert a scene into a dialogue for a 2-character skit.”
“Create 5 visual vocabulary cards from Chapter 4.”
“Write a journal entry as Tom Sawyer after being caught lying.”

One teacher whispered with a smile, “I think I’m finally enjoying grammar again.”

From Planning to Playtesting

The workshops didn’t stop at theory. Teachers began shaping their **own lesson plans**, using the template and choosing where GenAI would support them:

- Some used it to **simplify explanations** for mixed-ability learners
- Others created **tiered question sets** — from recall to challenge
- A few explored **cross-curricular integrations** — linking science to art, history to debate

And the best part?

No one was following a formula. They were **finding their own flow** — guided by pedagogy, enhanced by AI.

Exploratory Discoveries

- Development of a Board game for Reactions
- Building a counting game for numbers
- Reverse Analysis for Ratio & Proportion
- Role play with scripts for Reflex action
- Vlogs on the Geographical Relief structures in India
- Creating Crosswords & Find the Word exercises in Social sciences

And so many mindboggling ideas

No Pressure, Just Progress

Each teacher left the room with:

- A draft lesson idea
- A sense of what prompt worked best for their topic
- A growing confidence in shaping tech to serve **their style**
- And a quiet excitement about how students might respond

No one had to submit anything. There were no marks.

Just a shared understanding: *“We’re learning to teach differently — together.”*

Moving Forward - From Plans to Possibilities

What begins now is more than implementation — it’s transformation.

As these lesson plans evolve into real-time teaching moments, we’re not just testing prompts — we’re reimagining the classroom itself.

A space where content meets creativity, where AI becomes a quiet partner in personalization, and where every student has a better chance to feel seen, heard, and challenged.

This is just the beginning.

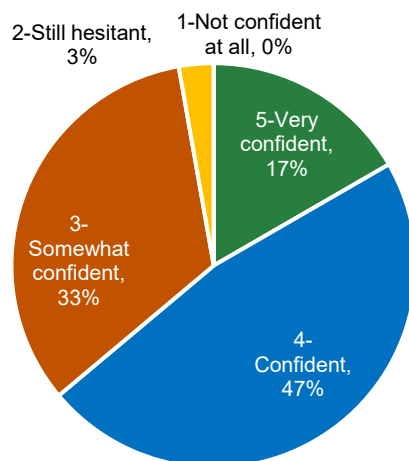
The future of teaching isn’t automated — it’s **amplified**,
powered by the wisdom of educators and the possibilities of GenAI.

Listening to the Designers – What Teachers Said

If the follow-up workshops were about lighting the creative spark, the post-workshop reflections gave us a rare and honest glimpse into the minds of educators standing at the edge of pedagogical reinvention.

Across all four cohorts — Math, Science, Social Sciences, and Languages — **53 teachers** responded to the reflective survey. Their voices, layered with excitement, curiosity, and cautious optimism, offer a window into where GenAI now sits in their professional journey: not as a distant idea, but as a tool in hand, being thoughtfully shaped.

Quantitative Insights: What the Numbers Tell Us



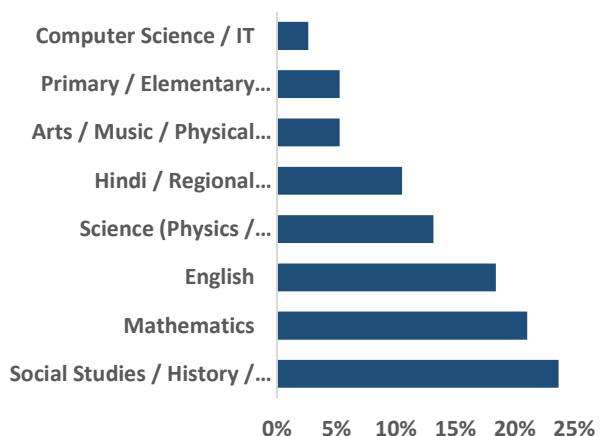
Confidence with GenAI Tools

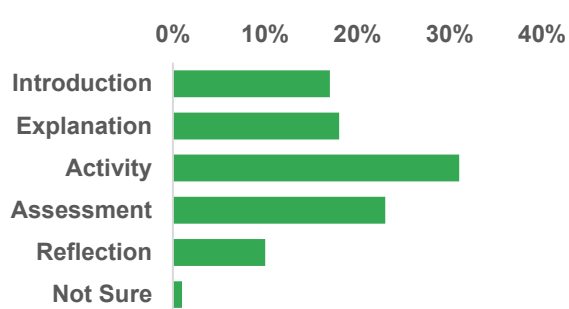
Teachers rated their confidence on a scale of 1 to 5. Here's what emerged:

Takeaway: A total of **64%** of teachers rated themselves at **4 or 5**, indicating a strong shift from tentative curiosity to hands-on confidence after the workshops.

Subject-Wise Representation of Respondent

Takeaway: With strong engagement from **Math, Social Sciences, English**, and **Science**, the reflection pool represents a **diverse teaching community**. Importantly, non-core and primary teachers have also begun exploring GenAI, hinting at **school-wide adoption potential**.



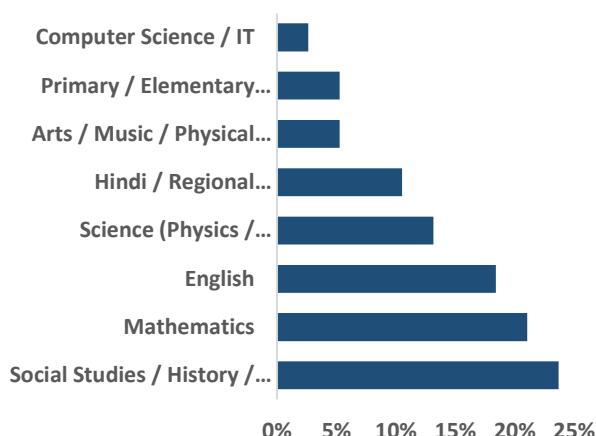


Where Teachers Plan to Use GenAI in Lessons

Teachers are clearly leaning on GenAI to help design activities and develop assessments. These stages require significant time and creativity — and AI is offering an efficient way to boost both.

Types of Outputs Teachers Have Already Tried Using GenAI

Takeaway: Beyond just planning, teachers are using GenAI to reinvent classroom formats — quizzes, dialogues, group tasks, and even reflection prompts. It shows a readiness to move from instruction to engagement.



Qualitative Insights: What the Voices Reveal

1. Pedagogical Excitement: Rediscovering the Joy of Design

Many teachers expressed **excitement about personalization**, faster content creation, and new ways of reaching diverse learners.

"I'm thrilled about how AI enables me to design content for different learning levels without starting from scratch every time."

– Science teacher, Grades 6–10

"Creating personalized worksheets and tasks using AI feels like I finally have time to teach the way I always wanted to."

– English teacher, Senior Secondary

2. Clear Use Cases: Where Teachers See Immediate Impact

- Explanations simplified through analogies
- Tiered questions generated in seconds
- Student-friendly skits, diary entries, and prompts for reflection
- Time-saving in routine planning and worksheet formatting

"It's like I know what I want to do — but now I actually have the time and support to do it."

3. Anticipated Challenges

Despite enthusiasm, teachers expressed thoughtful concerns:

- Need for **more examples tailored to specific topics**
- Uncertainty around **assessment design**
- Infrastructure and **student access issues**
- Worries about **AI bias, hallucinations**, or overdependence

“For a few topics, aligning AI-generated content with curriculum needs more careful thought.”

“I’d love more hands-on demos on using AI without overshooting class time.”

4. Learning Styles and Inclusivity

Teachers were quick to connect GenAI with **multi-modal learning**:

- Visual learners: infographics, comic strips
- Auditory learners: read-alouds, podcasts
- Kinesthetic learners: role-plays, station tasks

“Every child is different — with AI, I feel better equipped to offer multiple entry points into the same topic.”

5. The Emerging Mindset Shift

Perhaps the most heartening theme was the tone of **professional growth**:

- Teachers viewing themselves as **designers**, not just deliverers
- Feeling **empowered to differentiate**
- Curiosity replacing scepticism

“GenAI has changed the way I think about lesson planning — not just faster, but more thoughtful.”

“I used to think AI would make things robotic. But now, it’s actually helping me humanize my teaching.”

6. AI as a Tool for Differentiation

One of the most consistent undercurrents in teacher feedback was this: **GenAI makes personalization possible** — at speed, and at scale.

“The ability to instantly create differentiated practice questions for varied student abilities is a game-changer.”

Whether it was simplifying questions, adjusting the language level, or offering challenge tasks, teachers were quick to recognize how GenAI could respond to **a range of learner needs** — without having to create five separate lesson versions from scratch.

Why it matters: For many, this was the first time they felt equipped to offer **true differentiation** — not just in theory, but in action. It wasn’t about lowering the bar; it was about offering **multiple ways to climb it**.

7. Visual and Creative Support

While many started with text-based prompts, teachers quickly discovered GenAI's potential to **expand their visual toolkit**.

"It can create images, storyboards, games..."

"Adding audio-video aids in the content"

What began as a lesson plan often ended as a comic strip, a podcast script, or an animated dialogue. The creativity wasn't in the AI's output alone — it was in how teachers imagined **new formats** for familiar content.

Why it matters: Visual and auditory strategies aren't just "add-ons." For many learners — especially those who struggle with long-form text — they are **essential entry points** into understanding. GenAI helped teachers see these formats not as extras, but as **equal players in the learning process**.

8. Shifting from Passive to Active Lesson Design

Perhaps the most subtle — and profound — shift came in how teachers began to reimagine the **role of the student**.

"Suggest a crossword puzzle..."

"I'm now designing tasks that require more doing than listening."

Teachers moved from planning what they would say to thinking about what students would *make, solve, or act out*. And GenAI offered the scaffolding to do that — generating quiz formats, gallery walk prompts, classroom simulations, and even peer-review checklists.

Why it matters: This wasn't just an upgrade in content — it was a **philosophical shift**. From passive absorption to active construction. From teacher talk to student task. GenAI didn't just support lessons. It **nudged teachers toward deeper engagement strategies**.

9. Designing for Different Learners — Finally Made Possible

"The ability to instantly create differentiated practice questions for varied student abilities is a game-changer."

Teachers now feel empowered to **meet every learner where they are**, not just teach to the middle. GenAI's flexibility lets them **adjust complexity, formats, and examples** with just a tweak of a prompt.

Why this matters: Differentiation has long been an aspiration. Now, teachers can **design for real diversity in classrooms — without it becoming a burden**.

10. From Text to Tools — Visual & Creative Formats Come Alive

"It can create images, storyboards, games etc."

"Adding audio-video aids in the content"

Teachers are tapping into GenAI's **visual and multimedia capabilities** to move beyond worksheets. Whether it's a **model of atoms, a story map, or a quick cartoon**, the classroom is becoming more dynamic — and more inclusive for different types of learners.

Why this matters: It's not just about more formats — it's about **engagement, memory retention, and accessibility**. Students who struggle with text finally have other doors opening.

11. A New Type of Creativity — From Crosswords to Comic Strips

"Suggest a crossword puzzle"

"Tried and tested both the above options."

Teachers are actively experimenting with **interactive tools** — GenAI-generated puzzles, role-play prompts, visual quizzes, and classroom challenges. They're not just consuming content — they're **engineering experiences**.

Why this matters: This is where GenAI shifts teachers from instructors to designers — opening up **game-based, inquiry-led, and discovery-focused learning paths**.

12. Excitement + Hesitation = Honest Professional Reflection

"Balancing technology with traditional teaching methods..."

"Extra time needed to prepare and adapt content... check accuracy..."

The reflections don't paint a blind utopia. Teachers are asking real questions:

- How do we stay aligned with curriculum objectives?
- How do we verify AI-generated content?
- How do we manage time and technology within a fixed period?

Why this matters: These insights reflect a **mature professional mindset** — one that is hopeful, yet cautious. GenAI is being **questioned, not worshipped** — and that's the healthiest adoption curve possible.

13. Mindset Shift: From Delivery to Design

"Design more engaging lesson plans catering to the need of different types of learners..."

"Reflection — encourage students to reflect on their learning."

Teachers aren't just planning **what they'll teach** — they're now rethinking **how students will experience it**. With GenAI, they're reflecting more on emotional tone, entry points, and learning depth.

Why this matters: We're witnessing a shift from content delivery to **experience architecture** — with teachers at the heart of it.

14. Clear Ask: Support for Deeper, Better Use

“Technical assistance.”

“More specific search.”

“Students need to access ChatGPT too.”

The request is simple:

- More subject-specific **prompt examples**
- Classroom **infrastructure support**
- Opportunities to **collaborate and test ideas** before full deployment

Why this matters: Teachers aren’t passive participants. They are co-builders. They know what they need — and they’re ready to ask for it.

Teachers on the Edge of a Pedagogical Shift

These reflections don’t merely hint at change — they **resound with the voice of transformation**.

What began as a workshop has grown into a movement of educators who are rethinking not just *what* they teach, but *how* and *why*. They are not asking “*What can AI do?*” — they’re asking “*What can I do better, now that I have AI?*” And in that question lies the real transformation.

The journey ahead isn’t about replacing human insight, but **amplifying it** — and these teachers are ready to lead the way. With GenAI in their hands, teachers are stepping into a new role — not as content deliverers, but as **architects of engagement**, creators of differentiated pathways, and facilitators of deeper inquiry. They’re designing lessons that respond to **individual learners, real-world connections, and creative formats** — and they’re doing it with intention.

What’s striking is not just the excitement, but the **professional maturity** in these voices — a desire for clarity, relevance, and impact. These educators know GenAI is not a silver bullet — it’s a power tool. And like any tool, its value lies in the craft of the user. They are asking sharp questions, sharing prompt ideas, planning boldly, and seeking collaboration — not to follow a trend, but to **shape a future**.

“The future of education won’t be coded in silicon — it will be sparked by teachers who dare to create with it.”

And this cohort? They’ve already lit the fire.