

Instructional strategies that relate to alphas and betas of Gen Zs?

Christine B. Sisnorio

*College of Teacher Education/Graduate School, Zamboanga Peninsula Polytechnic State University,
Zamboanga City, 7000, Philippines*

Corresponding email: maestragwapa30@gmail.com

The evolving landscape of education demands adaptive instructional strategies that resonate with the unique characteristics of emerging generational subgroups. Within Generation Z (typically defined as those born between 1997 and 2012), educators are now observing distinct behavioral and cognitive patterns among early Gen Zs often referred to as “Betas” and the younger cohort on the cusp of Gen Alpha. While both subgroups share foundational digital fluency, nuanced differences in their social context, technological exposure, and learning preferences necessitate differentiated instructional approaches.

The term “Betas” can be used to describe the older segment of Gen Z, those who grew up during the rise of social media, the 2008 financial crisis, and early smartphones. These learners are digital natives but also bear a transitional identity straddling analog and digital modes of learning. In contrast, the younger Gen Zs or “Alphas” (often considered part of Gen Alpha by some demographers) have been immersed in algorithmic environments from birth, interacting with AI-driven apps, voice assistants, and personalized learning platforms. Alphas tend to prefer instant feedback, hyper-personalized content, and immersive digital experiences. Betas, while similarly tech-savvy, display a greater tolerance for asynchronous learning and may value peer collaboration and social validation more due to their formative years on platforms like Instagram, Snapchat, and YouTube.

Betas thrive in learning environments that mimic the dynamics of social media team-based, iterative, and rich in feedback. Collaborative and project-based learning strategies are particularly effective for this subgroup. Educators can utilize tools like Google Workspace or Slack to foster virtual collaboration, allowing students to engage in peer review and group problem-solving. Moreover, Betas tend to be socially conscious and are drawn to lessons with real-world relevance. Instruction that focuses on social issues, sustainability, and ethics through problem-based learning helps students connect academic content with authentic challenges. To support their learning preferences, a multimodal approach is crucial. Betas respond positively to a variety of content formats including infographics, short videos, podcasts, and interactive slide decks. The flipped-classroom model is especially effective, allowing students to absorb lecture material independently and use classroom time for discussion, analysis, and application catering to their need for flexibility and self-directed learning (Dalton, 2017).

In contrast, Alphas show a strong preference for gamified learning environments. Platforms like Kahoot!, Minecraft Education, and Duolingo engage

these learners through the use of leaderboards, badges, and progression systems that provide both intrinsic and extrinsic motivation. Additionally, Alphas are accustomed to content that is personalized to their interests and abilities. Having grown up with algorithm-driven platforms like TikTok, they expect high levels of customization. AI-enhanced tools such as DreamBox, Sora, and Khan Academy Kids are well-suited to meet this expectation by adapting in real time to each student's needs demonstrating, in educational trials, improved engagement and usage metrics when personalized recommendation systems are employed (Agrawal et al., 2022). Instructional content for Alphas should be delivered in short, interactive bursts; microlearning lessons under five minutes long are highly effective, especially when paired with platforms like Edpuzzle or Nearpod that integrate quizzes, reflection prompts, and multimedia (Gherman et al., 2022). Furthermore, Alphas are native users of voice and touch interfaces, interacting daily with Alexa, Siri, and touchscreen devices. Instructional design for this group should incorporate voice-activated technologies, augmented reality (AR), and touch-based activities to create intuitive and engaging learning experiences.

While Betas and Alphas differ in media habits and attention spans, they share a strong preference for autonomy, relevance, and digital fluency. Educators can bridge instructional strategies across these cohorts by adopting Universal Design for Learning (UDL) principles providing multiple means of representation, engagement, and expression (Rose & Meyer, 2002; Espada-Chavarria et al., 2023). Flexibility in assessments, such as allowing video submissions, digital portfolios, or interactive journals, caters to diverse learners without compromising rigor reflecting core UDL tenets of accessibility and learner choice (Flood et al., 2025). Effective instruction for today's Gen Z learners and the incoming Alpha generation requires more than just integrating technology. It involves a nuanced understanding of their cultural context, cognitive development, and expectations shaped by the digital world. By tailoring instructional strategies to meet the distinct needs of Betas and Alphas within Gen Z, educators can foster deeper engagement, better retention, and more meaningful learning outcomes.

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