

Guideline for the Use of Generative AI in Primary and Secondary Education (Ver.2.0)

[Summary]

This guideline is intended for primary readers of school education personnel, such as teachers, school boards, and others, and is designed to serve as a reference for realizing the appropriate use of generative AI in schools. It provides an overview of generative AI, basic concepts, and key points to keep in mind depending on the situation and the subject.



1. About Generative AI

Overview of Generative AI



- Generative AI is a broad term for AI based on AI models that can generate text, images, programs, etc.
- Not only general-purpose services but various delivery formats and providers have emerged and are being introduced into the education sector.
- While various risks have been pointed out, technological countermeasures are also progressing

2. Basic Concept

Human-centered Utilization



- It is important to view generative AI as a potentially useful tool and to use the output as one of the references, with human judgment and responsibility at the end, based on risks and concerns.
- Use the information only after examining whether it contributes to the development of qualities and abilities as defined in the curriculum guidelines and whether it is effective in achieving the objectives of educational activities.
- The role of teachers as learning professionals is becoming more important.

Strengthening the development of Information literacy



- It is important to consciously develop an understanding of how generative AI works, how to apply it to learning, and the ability to master generative AI in each subject.
- With generative AI in social life in mind, it is necessary to further enhance the development of information utilization skills, including information ethics.



Reference Materials

- Check items for each situation and subject, examples of previous initiatives at pilot schools using generative AI, training materials that can be used in schools, etc.

3. Important points to keep in mind when working in schools

Situations in which teachers and staff make use in their schoolwork



- It is expected that utilizing Generative AI in schoolwork will lead to work style reforms, such as improving the efficiency and quality of school affairs.
- It is important for teachers and staff to become familiar with new technologies and be aware of their convenience and concerns in order to advance students' learning.
- It is useful to understand the mechanisms and characteristics of generative AI and actively utilize it to the extent that they can judge the appropriateness of the generated content.

Situations in which students make use in their learning activities



- Consideration should be given to the developmental stage and the state of information utilization ability, and measures should be taken to address risks and concerns before considering its use. In doing so, it is necessary to examine whether it contributes to the development of qualities and abilities set out in the curriculum guidelines and whether it is effective in achieving the objectives of educational activities.
- To enhance the understanding of the AI system and the ability to apply it to learning, by combining and switching back and forth between "learning about the AI itself," "learning how to use it," and "actively using it in each subject area, etc.

Points to be considered by the Board of Education, etc.



- It is important for the Board of Education to take the lead in designing the system and showing the direction
- It is necessary to take flexible measures that fully consider the circumstances of each school, and rigid implementation such as uniformly prohibiting or mandating teaching is not desirable.
- It is necessary to create an environment that promotes the appropriate use of generative AI by publicizing and sharing previous cases, teaching materials, and know-how, and by providing training.

Points to keep in common



- Appropriate use with safety
- Ensuring information security
- Personal information, privacy and copyright protection
- Ensuring fairness
- Ensuring transparency and accountability to stakeholders