

TOPIC 5. ICT

ICT in Education

Group 5 - AO1 & IO1

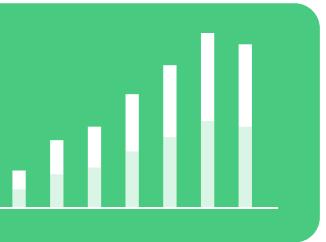


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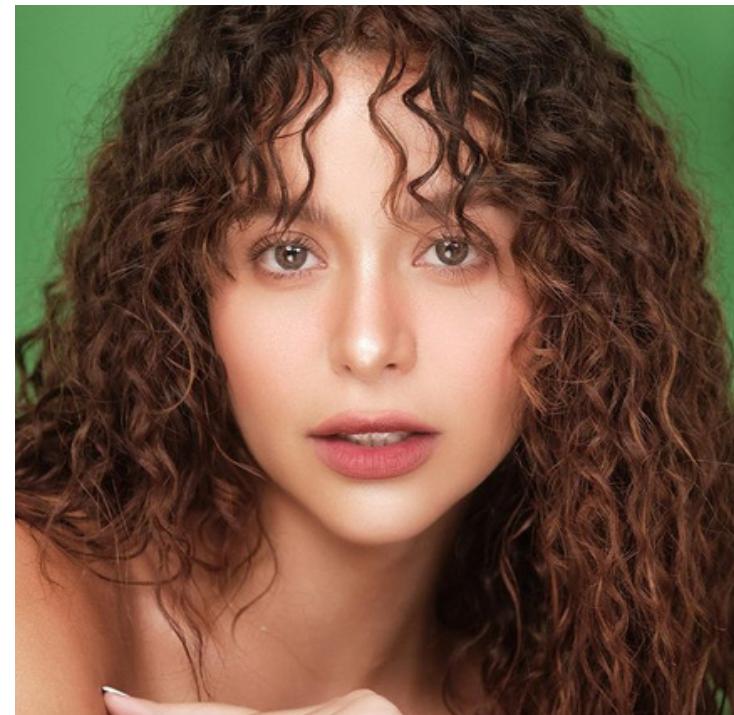
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Name:
Binondo, Megan



Name:
Bolotaolo, Aubriel



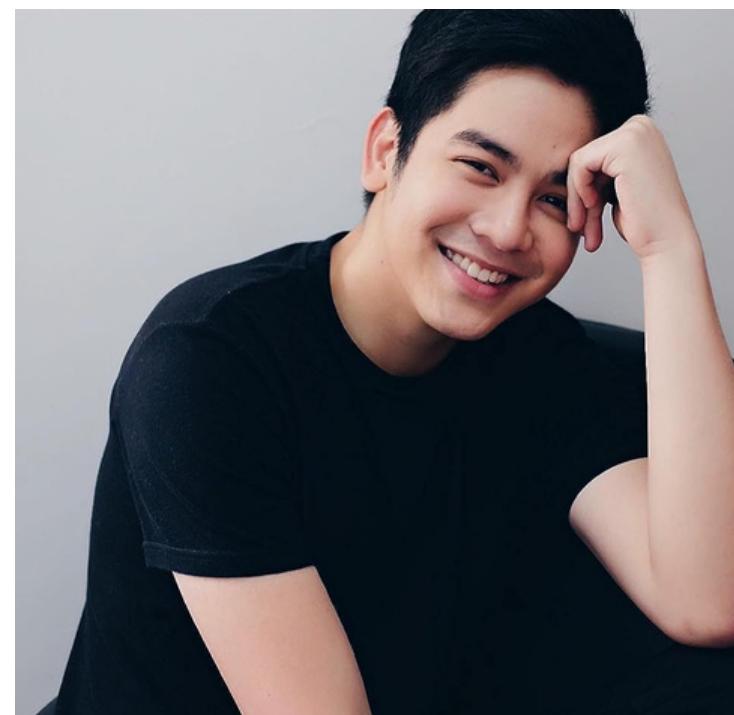
Name:
Mendez, May Angela



Name:
Mendoza, Jennifer



Name:
Roma, Jryme



Name:
Saligue, Alejandro



Name:
Sanchez, Crizen Ronn



Name:
Tecson, Lambert Ry

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THE NUMBERS GAME

How does this game works:

- Must need 2 sets of numbers from zero to nine
- Form two teams that consist of ten members
- Each team will have a full set of numbers without any duplicate numbers
- Each person must hold a number to make the numbers visible in both teams
- The game host will call out any number but without any duplicate numbers
- Each team will now arrange themselves base on the called out number
- Both teams are given 10 seconds only and the team who will arrange themselves first, wins.

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ICT in education refers to the use of information and communication technology resources, such as computers and the internet, to enhance and support the teaching and learning process, making it more interactive, accessible, and engaging for students, teachers, and learners of all ages.

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ITS IMPORTANCE

- Enhanced Learning Opportunities
- Access to Resources
- Improved Communication
- Blended Learning
- Digital Literacy

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Enhanced Learning Opportunities

ICT in education offers interactive, engaging, and personalized learning experiences, catering to various learning styles and abilities.

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Access to Resources

It provides access to a wealth of educational materials, including online courses, digital textbooks, and multimedia resources, irrespective of geographical location.

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Improved Communication

ICT enables seamless communication between teachers and students, facilitating collaboration, feedback, and remote learning through tools like video conferencing and messaging apps.

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Blended Learning

The integration of ICT with traditional teaching methods results in blended learning, optimizing the benefits of both online and in-person education.

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Digital Literacy

ICT in education fosters digital literacy skills, empowering students to navigate the digital world, critically evaluate online information, and use technology effectively.

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SIX (6) ICT TOOLS WITH ITS KEY POINTS

Teaching and learning with ICT (Information and Communication Technology) tools refer to the integration of technology in the educational process to enhance the quality of teaching and the learning experience.

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COMPUTERS

- **Research and Learning:** Used for research on the internet, accessing educational resources, and learning through various software applications.
- **Document Creation:** Ideal for typing assignments, creating presentations, and producing digital projects.
- **Coding and Programming:** Enables students to learn coding and programming skills, essential for the digital age.

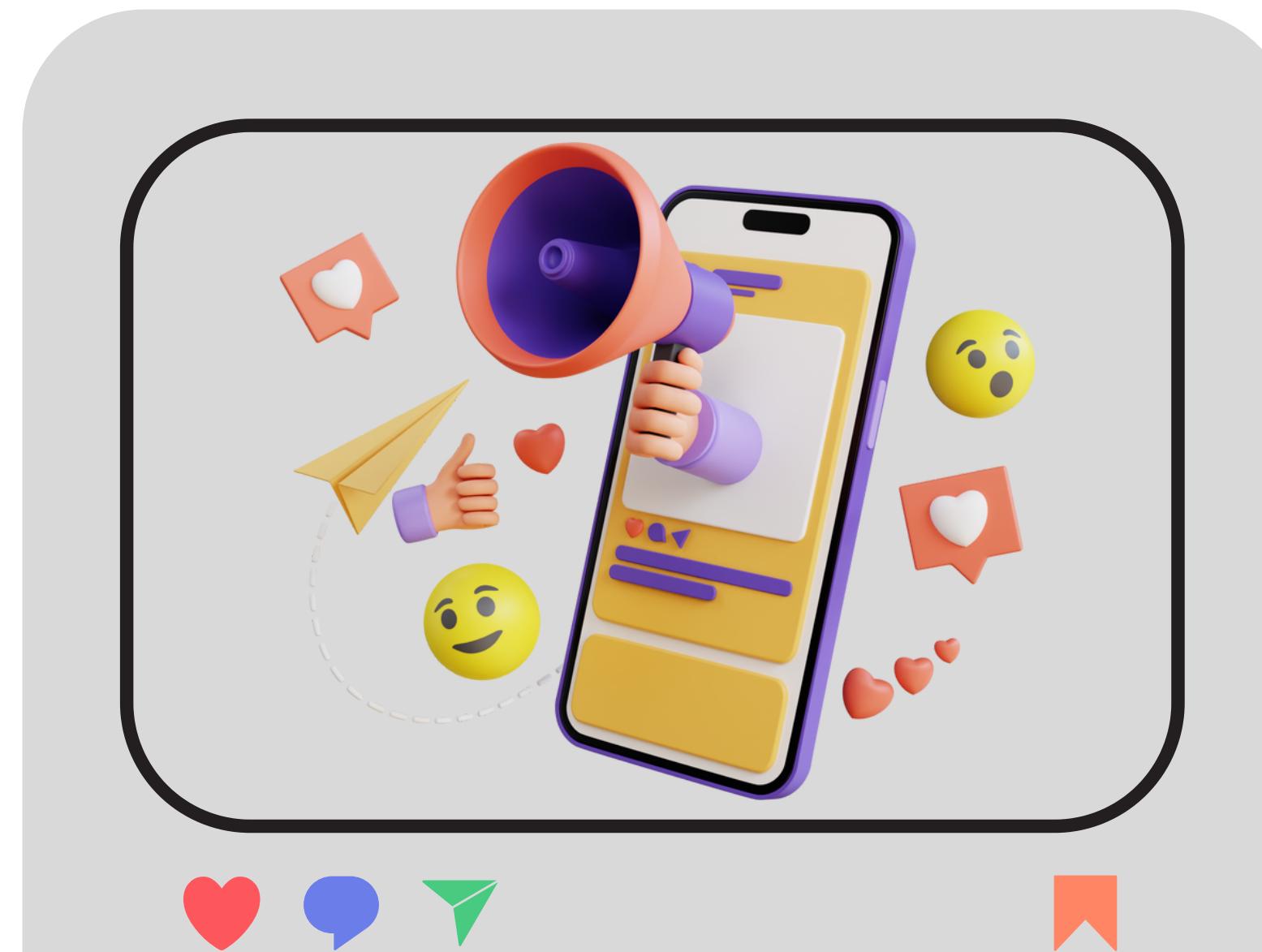
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EDUCATIONAL APPS

- **Mobile Learning:** Available on smartphones and tablets, making education accessible on-the-go.
- **Interactive Lessons:** Apps offer engaging and interactive lessons through games, quizzes, and exercises.
- **Subject-Specific:** Cover a wide range of subjects, from math and science to languages and history.

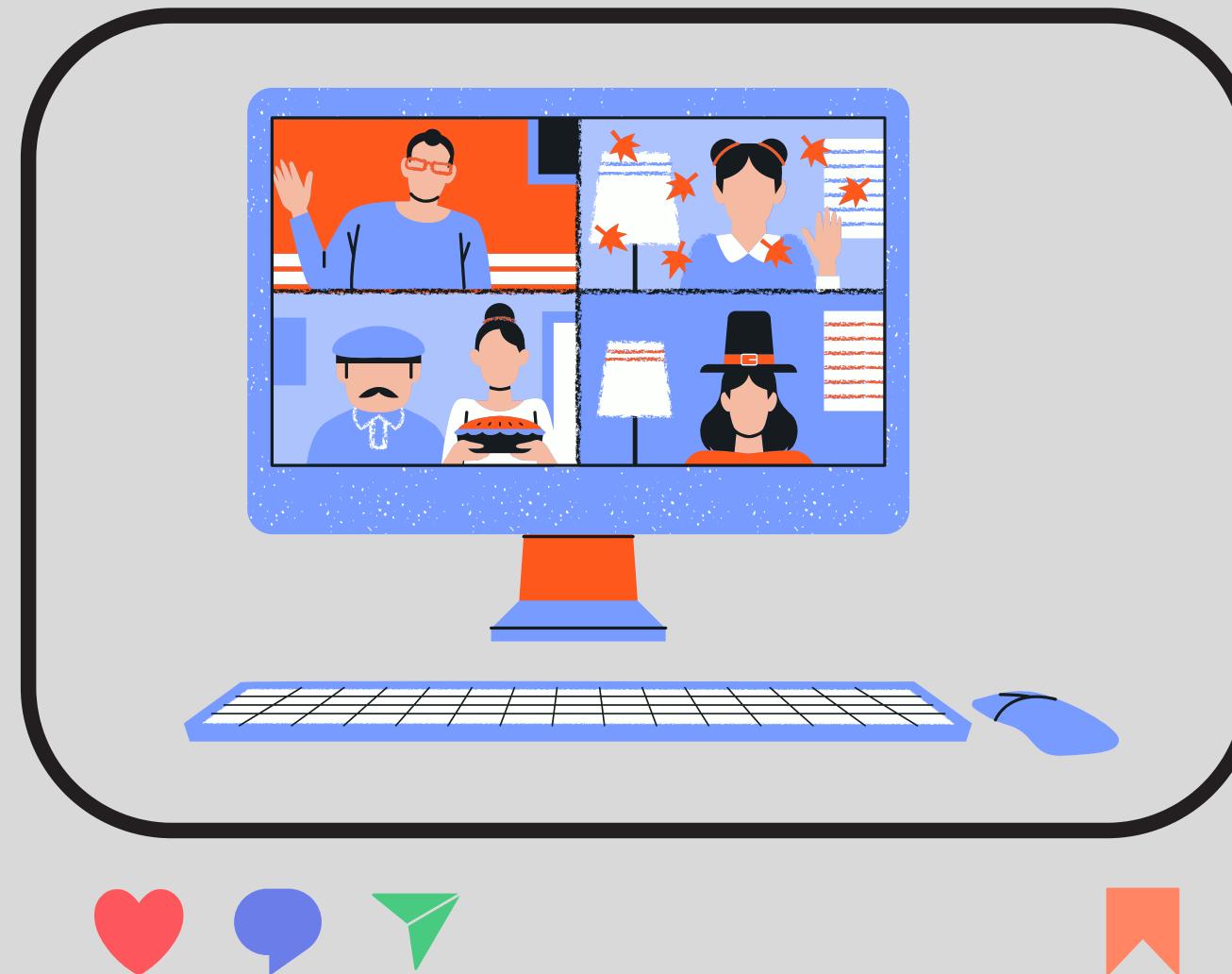
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VIDEO CALLS

- **Remote Learning:** Facilitates virtual classrooms and remote education, particularly useful during disruptions like the COVID-19 pandemic.
- **Real-Time Interaction:** Allows students and teachers to engage in live discussions, Q&A sessions, and presentations.
- **Screen Sharing:** Enables teachers to share educational content, presentations, and demonstrations with students.

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ONLINE COURSE

- **Accessibility:** Provides access to a variety of courses and educational content from anywhere with an internet connection.
- **Self-Paced Learning:** Allows students to learn at their own speed and convenience.
- **Diverse Subjects:** Covers a wide range of topics and disciplines to suit different interests and needs.

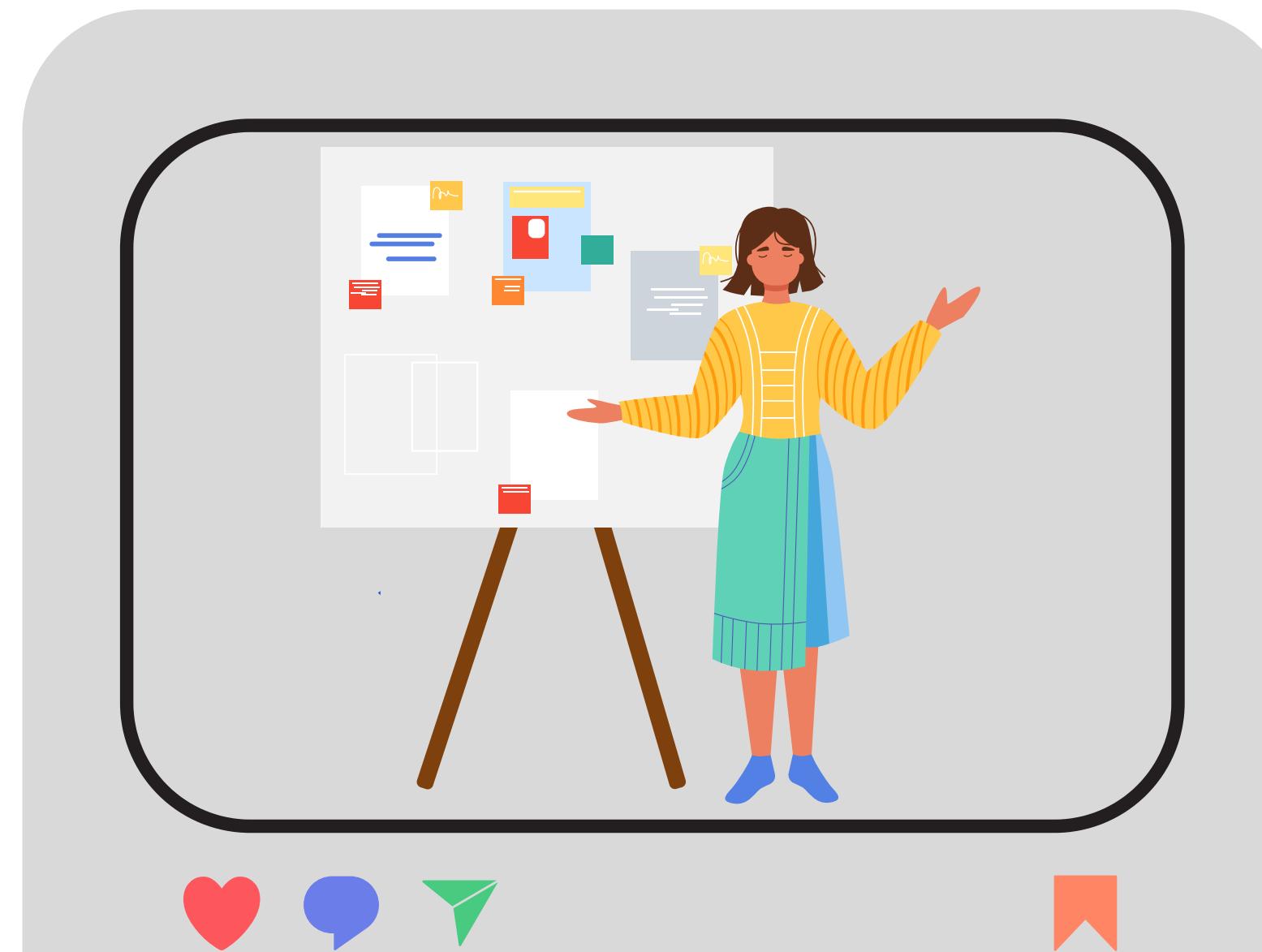
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INTERACTIVE WHITEBOARDS

- **Engaging Lessons:** Promotes interactive and visually stimulating lessons for students.
- **Annotating and Drawing:** Teachers can illustrate concepts, draw diagrams, and highlight key points during lessons.
- **Real-Time Interaction:** Allows students to actively participate in lessons by touching the board.

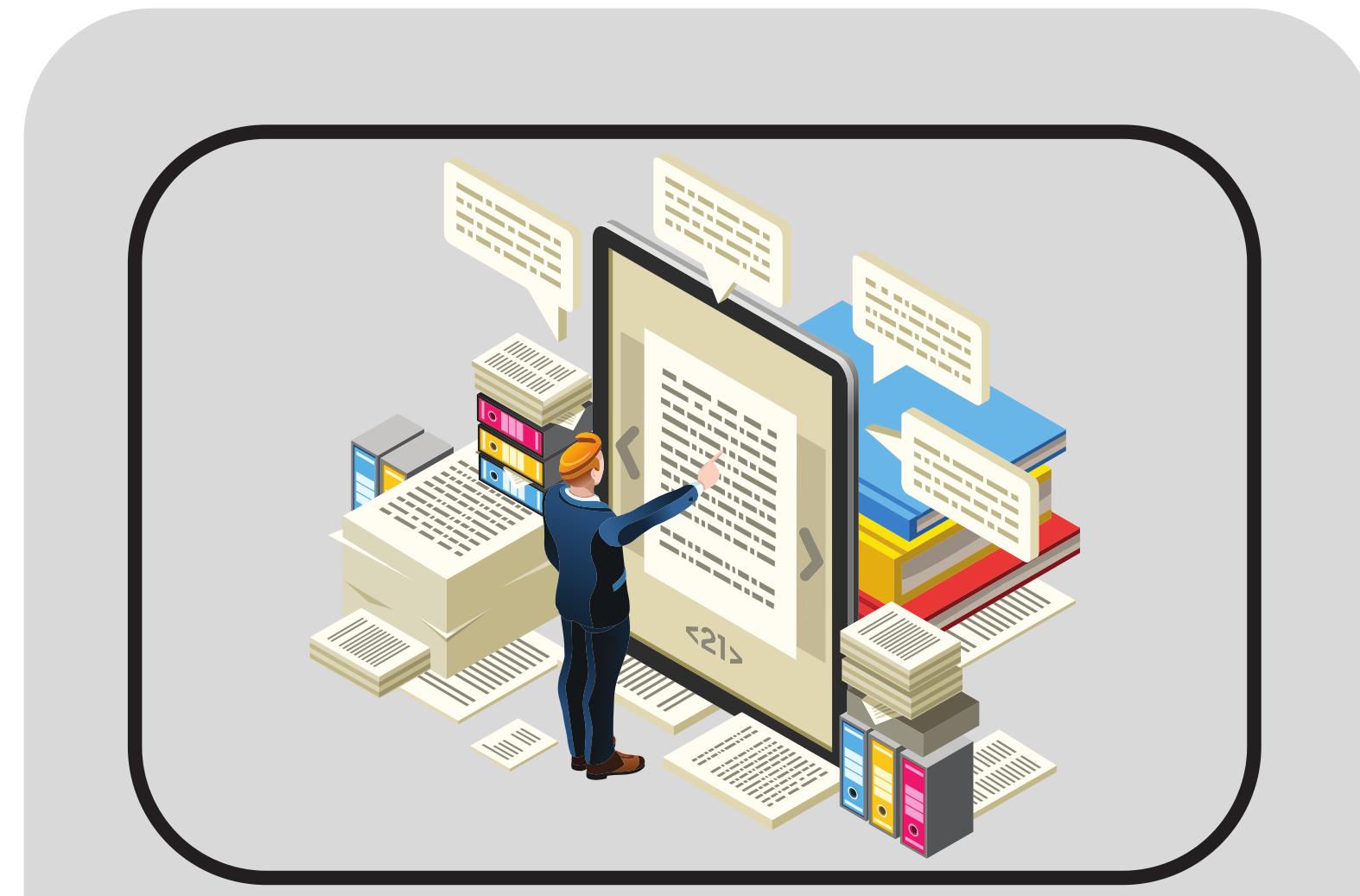
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E-BOOKS

- **Digital Reading:** Provides the convenience of accessing a library of books on a single device.
- **Portability:** E-books can be read on various devices, making them accessible for readers on the move.
- **Adjustable Text:** Allows users to adjust font size, background color, and more for personalized reading.

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- Lack of Access to Technology
- Limited Digital Literacy
- Cost Constraints
- Resistance to Change
- Cybersecurity Concerns

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Lack of Access to Technology

Not all students have access to computers or the internet at home, creating a digital divide.

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Limited Digital Literacy

Some students and teachers may lack the skills needed to effectively use ICT tools.

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Cost Constraints

Purchasing and maintaining technology can be expensive for schools and individuals.

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Resistance to Change

Some educators may be hesitant to embrace new teaching methods and technology.

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Cybersecurity Concerns

Safeguarding students' online privacy and data can be challenging.

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- Digital Inclusion
- Digital Skills Training
- Budget Allocations
- Professional Development
- Cybersecurity Education

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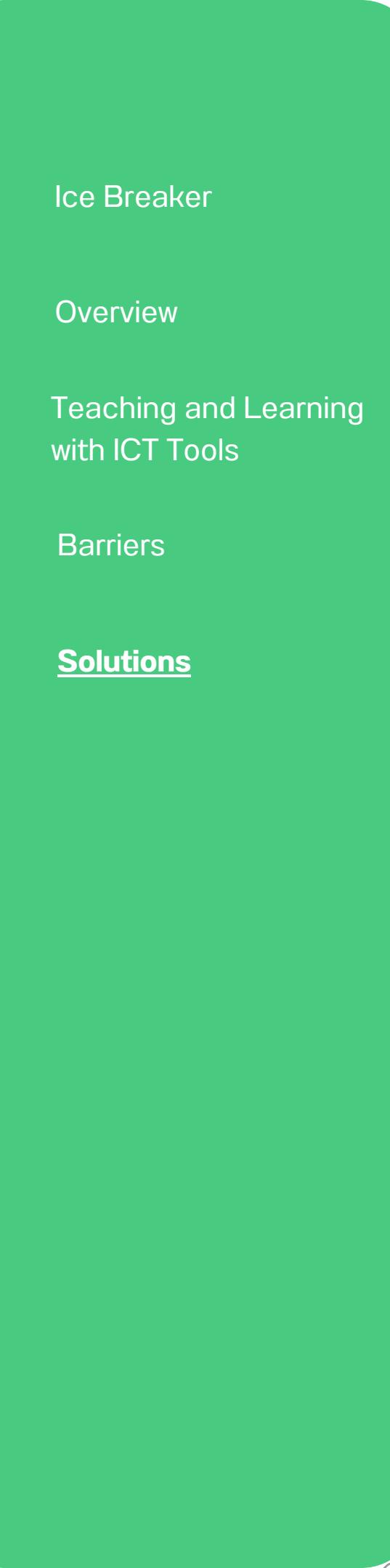
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Digital Inclusion

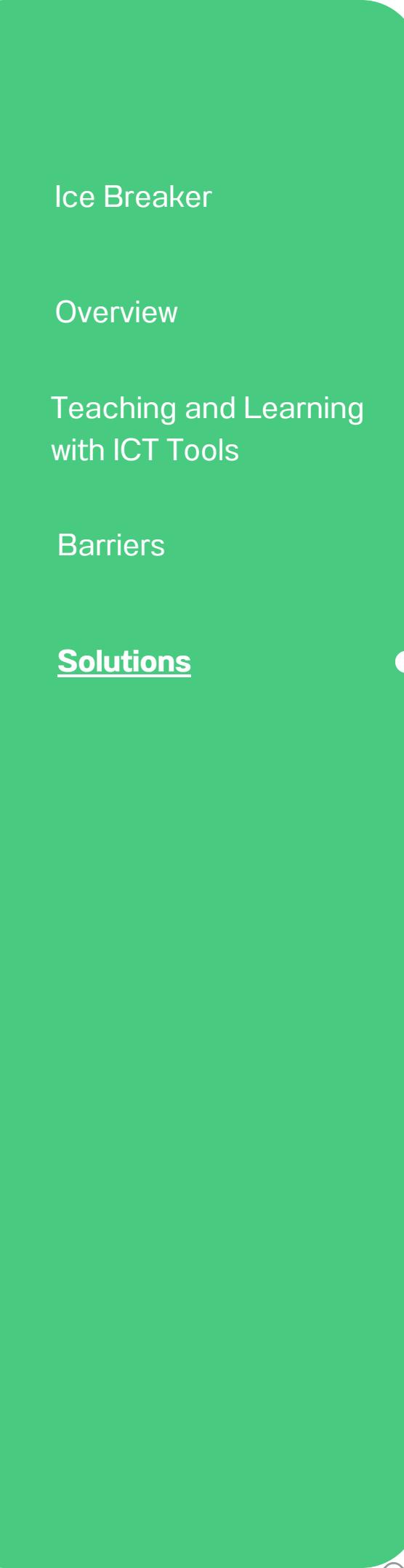
Ensure that all students have access to technology and the internet, potentially through subsidies or community initiatives.



Solutions

Digital Skills Training

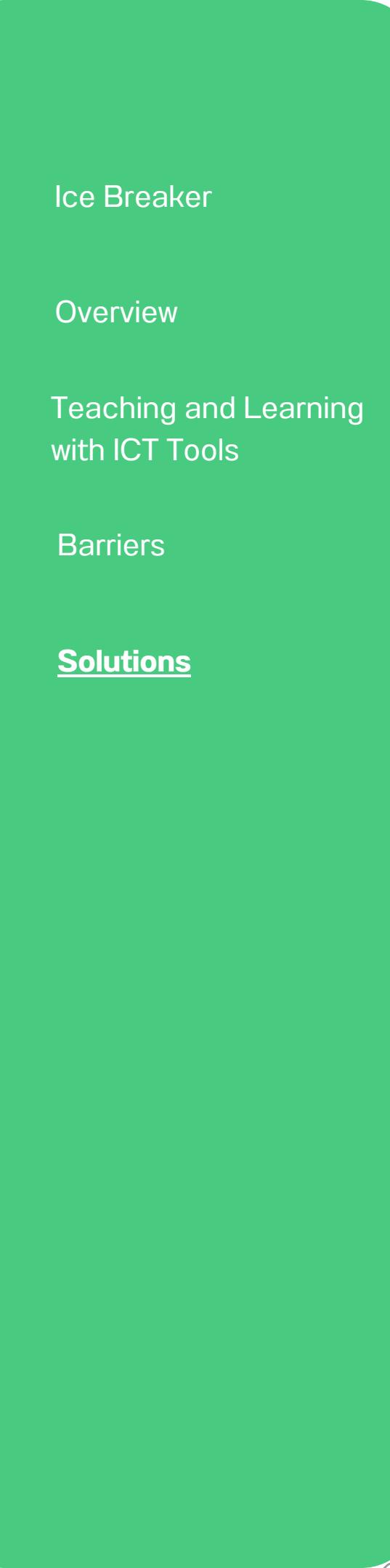
Offer training programs for both students and teachers to improve their digital literacy.



Solutions

Budget Allocations

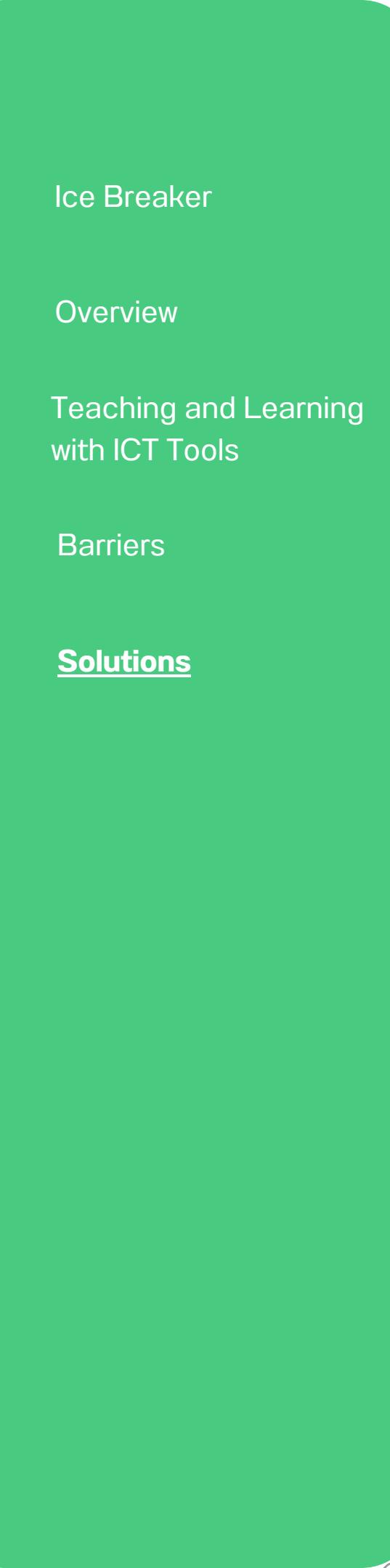
Schools and governments can allocate funds for technology infrastructure and device provision.



Solutions

Professional Development

Encourage and support teachers in adapting to new teaching methods and technologies.



Solutions

Cybersecurity Education

Implement robust data protection and privacy measures to ensure safety while using ICT tools.

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