

COVER PAGE AND DECLARATION

	Master of Science in Innovative Education & Teaching (M.S.IET.)
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EDUC560: Educational Technology:

The 21st Century Classroom

Education Technology Integration: (100 points)

Introduction:

The starting point or opening remarks of a discussion or presentation. In modern education, incorporating technology has resulted in transformative learning experiences. The quick progress in technology has transformed how education is done, allowing new methods for teaching, learning, and evaluating. Modern educational technology not only assists various learning styles but also encourages personalized teaching and encourages active participation from students. The main goal of incorporating technology into education is to improve the efficiency and fairness of the education system, getting students ready to become skilled digital citizens in the 21st century. This paper examines real-world instances of incorporating technology in the four main areas: learning, teaching, assessment, and leadership. Through the analysis of practical examples like Kahoot, Socrative, and Augmented Reality (AR), we demonstrate how these resources can improve educational results and tackle the obstacles that may surface in the education. The latter section of the paper provides a thoughtful analysis of the use of these technologies, giving an understanding of their influence on educational methods and suggesting ways for teachers to integrate them successfully.

Part 1-Educational Technology Integration

Learning – Engaging and Empowering Learning through Technology

Education Technology Used: Kahoot and Socrative

In a science class at a primary school, the instructor used Kahoot and Socrative for engaging quizzes and ongoing evaluations. Students used their tablets to access these platforms and respond to questions about scientific topics like the water cycle, plant life, and simple machines. Kahoot and Socrative offered a fun-filled educational experience, promoting camaraderie and engagement among learners through gamification. By receiving immediate feedback and instant results, students were able to assess their grasp of the material and pinpoint areas in need of improvement.

The screenshot shows the Socrative Discover interface. At the top, there's a navigation bar with links like Launch, Library, Discover (active), Rooms, Reports, and Live Results. Below this is a search bar and a list of subjects: Math, ELA, Science, Social Studies, and World Languages. The main content area displays a list of quizzes, with the first one being 'Quiz Over Geometrical Figures' (Quiz ID WFNQMSI). This quiz is categorized under Math and has 3 questions and 905 uses. It is available for Grade 10, Grade 11, Grade 8, and Grade 9, and covers topics like Geometry, Parallelogram, and Types Of Triangles. A preview of the quiz questions is shown on the left, and buttons for 'VIEW DETAILS' and 'COPY QUIZ TO MY SOCRATIVE ACCOUNT' are on the right.

← → ↺ b.socrative.com/teacher/#discover

Gmail Maps YouTube News Translate Employee Training L... DIGITAL OBSERVATI... Strategic Managem... term 2 observation ADMISSIONS DATA... Assessment 2017

Launch Library **Discover** Rooms Reports Live Results

0 MYSORE3321 Get PRO RM

Discover BETA Math ELA Science Social Studies World Languages

SORT BY # of Uses: Descending Help us make the 'Discover' better! 2039 quizzes

CLASSES

GRADE LEVELS

KEYWORDS

OF QUESTIONS

CCSS

ACTIVITY TYPE

socrative

Quiz Over Geometrical Figures
(Quiz ID WFNQMSI)

1. A parallelogram is formed by:
Ⓐ Rotating about the vertex
Ⓑ Rotating about the midpoint of a side
Ⓒ Any rotation
Ⓓ Reflection across a side
Ⓔ Reflection across the vertex

2. What is an inscribed triangle?
Ⓐ A triangle with all sides the same
Ⓑ A triangle with all angles the same
Ⓒ A triangle at least two sides the same
Ⓓ A triangle that has a right angle

3. Which quadrilaterals are true about a kite? (You name them one.)
Ⓐ It is formed by reflecting a triangle across a side
Ⓑ The diagonals are perpendicular
Ⓒ The two pairs of adjacent sides
Ⓓ One of the diagonals bisects the other
Ⓔ The diagonals are the same length

Math

Quiz Over Geometrical Figures

3 Qs 905 Uses

Grade 10, Grade 11, Grade 8, Grade 9

Geometry, Parallelogram, Types Of Triangles

VIEW DETAILS

COPY QUIZ TO MY SOCRATIVE ACCOUNT



Quiz



Space Race



Exit Ticket

QUICK QUESTION



Multiple Choice



True / False



Short Answer

Launch Library Discover Rooms F 0 MYSORE3321

< World Facts Quiz X

Delivery Method

Instant Feedback

Students answer questions in order and cannot change answers. Instant feedback is provided after each question. You monitor progress in a table of live results.

Open Navigation

Teacher Paced

Settings

Require Names ☒

Shuffle Questions ☐

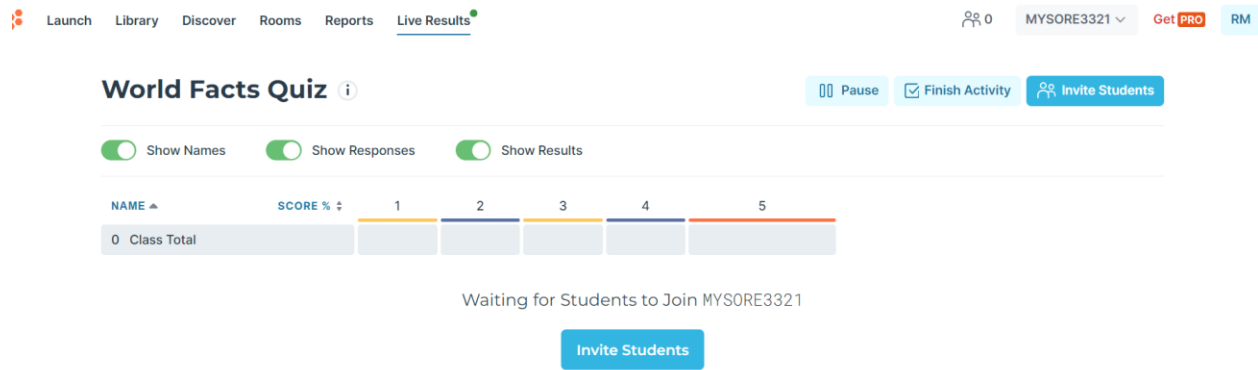
Shuffle Answers ☐

Show Question Feedback ☒

Show Final Score ☐

One Attempt **PRO** ☐

Launch



The Socrative learning application assists students in multiple ways.

- **Interactive Learning** involves engaging students with quizzes, polls, and interactive activities to encourage participation.
- **Instant Feedback:** Offers immediate responses to aid students in learning and rectifying errors promptly.
- **Gamification** involves using games and competition to make education more enjoyable and inspire students.
- Access to learning materials is easy for students since they can access them on various devices.
- **Personalization:** Enables educators to customize assessments and exercises to suit the individual requirements of their learners.
- **Engagement Analytics:** Assists students in monitoring their levels of participation and engagement.

Resource Sharing: Makes it easier for students to share educational resources and materials.

Advantages: Students noted a rise in their interest and eagerness to take part in classroom tasks. Teachers could promptly evaluate how well students understand the material and make necessary adjustments to their teaching methods. Obstacles include guaranteeing fair access to devices and internet for every student, handling possible distractions from personal devices, and resolving technical problems with the platforms.

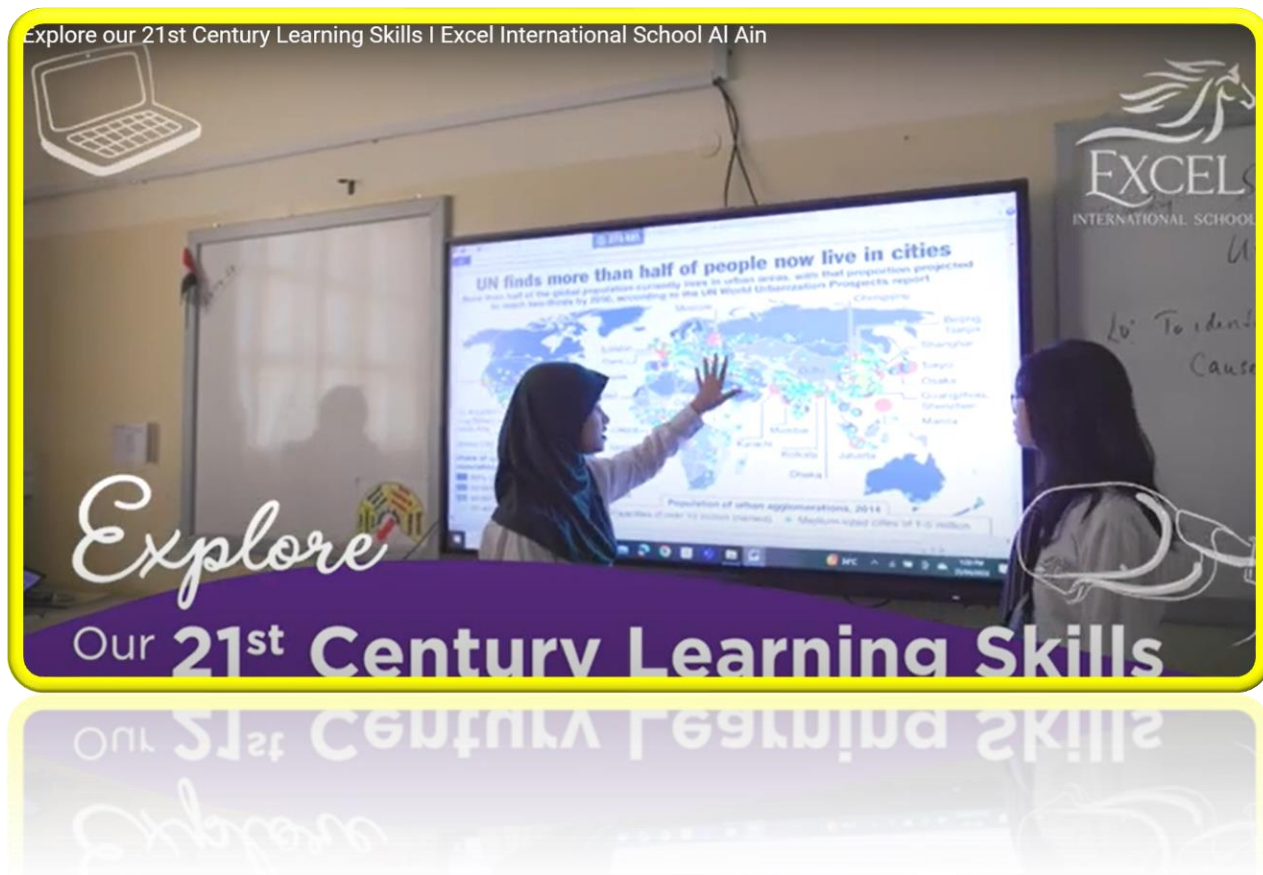
Challenges include guaranteeing fair access to devices and internet for every student, controlling distractions from personal devices, and solving technical problems with the platforms.

Teaching – Teaching with Technology

Education Technology Used: Augmented Reality (AR) and Use of Smart Boards

In our school science class, the teacher incorporated augmented reality (AR) applications in order to improve the instruction of astronomy topics. Students utilized AR-capable gadgets like tablets and smartphones to observe celestial bodies, investigate planetary paths, and engage with computer-generated models of the solar system. AR technology has made abstract astronomical concepts more tangible, giving students immersive and interactive learning experiences. By utilizing AR simulations and other IT devices students can witness astronomical events in the moment and enhance their comprehension of space science. Teachers have the ability to meet various learning preferences and develop engaging learning experiences that encourage exploration and questioning. Moreover, AR technology ignited students' creativity and ability to think critically. Obstacles include the presence of AR devices in the classroom, providing proper supervision for AR tasks, and managing distractions from the new technology.





Assessment – Measuring for Learning

Education Technology Used: Online Assessment Platforms

In our school environment, educators used online assessment tools to give quizzes, tasks, and tests. These systems enabled automated scoring, in-depth data analysis, and personalized question formats.

Online assessment platforms have made the assessment process more efficient, offered immediate feedback to students, and allowed instructors to monitor student progress consistently. Students valued the ability to finish assessments and instructors could effectively handle big class sizes and use assessment data for instructional purposes.

Difficulty arises from worries regarding dishonesty and academic honesty during online evaluations, platform-related technical difficulties, and the need to guarantee accessibility for every student, particularly those with disabilities.

Leadership – Creating a Culture and Conditions for Innovation and Change

Education Technology Used: Learning Management System (LMS)

In our school, the educational leaders introduced a learning management system (LMS) to consolidate resources, enhance communication, and assist in teacher and staff professional development.

The LMS enabled educators to collaborate, share knowledge, and engage in ongoing learning, promoting a culture of innovation and adaptability. Educational leaders have the ability to share effective methods, monitor professional growth initiatives, and encourage a mindset of continuous development in their staff. Obstacles: Some educators resisting change, ensuring effective training and support for LMS use, and addressing data privacy and security concerns.

Incorporating technology into primary classrooms is a major advancement in updating education and getting students ready for the digital era. Through the analysis of Kahoot, Socrative, and Augmented Reality (AR), we have observed the potential of these tools to change the educational setting in terms of learning, teaching, evaluation, and leadership. Although incorporating educational technology comes with many benefits, it also brings about obstacles that need to be carefully addressed. Educators and administrators must consider ensuring fair access to technology, handling technical problems, and addressing resistance to change as crucial factors.

Ongoing professional development and support for educators are essential for effectively utilizing these technologies. Educational institutions can establish an environment that seamlessly incorporates technology into teaching and learning processes by promoting innovation and adaptability.

Finally, incorporating educational tools like Kahoot, Socrative, and AR can greatly improve the learning experience for elementary school students. These tools both motivate students and support teachers in providing effective education and meaningful assessments. Educational leaders are crucial in facilitating successful technology integration by fostering a culture of continuous

learning and ensuring the provision of essential resources and support. As we move forward in the realm of technology, it is crucial to stay dedicated to the aim of developing a fair and efficient education system that readies students for what lies ahead.

Part 2- Critiquing Educational Technology Integration

Teacher's Reflection on Learning

Technology Used: Kahoot and Socrative

Reflection: The incorporation of Kahoot and Socrative into my main science classroom has been a game-changing experience. These tools have transformed the manner in which students engage with content, converting standard quizzes and assessments into captivating and interactive tasks. The competitive and fun gamification of Kahoot has encouraged active student participation in learning. In the same way, Socrative's instant feedback enables me to recognize and tackle learning deficiencies right away, promoting a more adaptable teaching method.

Criticism: Despite the evident advantages, significant challenges are present. Ensuring that every student has the required devices and dependable internet connection remains a consistent concern. Using personal devices can distract students, and technical issues can interrupt the lesson's progression. Moreover, the focus on gamified learning's newness may sometimes outshine the educational material, highlighting the importance of finding a middle ground between interactivity and academic value.

Teacher's Reflection on Teaching

Technology Used: Augmented Reality (AR)

Reflection: Augmented Reality (AR) has revolutionized the way complex scientific concepts are taught. AR technology in my elementary science classes has allowed students to see and engage with concepts like the solar system and the human body in ways that traditional approaches cannot match. This technology has accommodated different learning preferences, helping to clarify and make abstract ideas easier to understand. It has ignited creativity and analytical thinking, enabling students to delve into and absorb knowledge in a fully engaging setting.

Criticism: Yet, the utilization of AR comes with obstacles. The main obstacle is the presence of AR-capable devices. Discrepancies in the learning experience may arise due to some students lacking access to such technology. Additionally, although AR is immersive, it can also become disruptive when not utilized carefully. At times, the focus on the AR experience itself due to the novelty of the technology may overshadow the learning goals. Efficient oversight and organized tasks are crucial in order to optimize the educational advantages of AR.

Teacher's Reflection on Leadership

Technology Used: Learning Management System (LMS)

Reflection: Implementing a Learning Management System (LMS) has greatly simplified administrative duties and improved communication within the school district. As an educational leader, I have observed how an LMS can gather resources in one place, support professional growth, and encourage teamwork among teachers. It has created a space for ongoing education and exchanging successful techniques, promoting a mindset of creativity and flexibility.

Critique: In spite of its benefits, the use of an LMS encounters various obstacles. Resistance to change poses a major obstacle; certain educators are reluctant to embrace new technologies because they are not familiar with them or find them too complicated. Providing efficient training and continual support is essential for conquering this resistance. Furthermore, it is necessary to deal with data privacy and security issues in order to uphold trust and regulatory compliance. Careful planning and strong leadership are needed to balance these challenges with the potential benefits.

Teacher's Reflection on Assessment

Technology Used: Online Assessment Platforms

Reflection: The way we conduct and evaluate assessments has been transformed by online assessment platforms. These platforms provide flexibility, instant feedback, and in-depth analytics that are crucial for monitoring student advancement and guiding teaching choices. The capability to tailor evaluations and evaluate outcomes has led to the use of more focused and efficient teaching methods.

Criticism: Nevertheless, online evaluations present unique difficulties. Ensuring academic honesty and deterring cheating in an online setting is a major issue. Moreover, factors like the dependability and ease of access of the platform can also affect the evaluation procedure. Continuous effort and adjustment are needed to ensure that online assessments are accessible and beneficial for all students, including those with disabilities. Effectively integrating online assessments requires finding a balance between their efficiency and the insights they offer, despite the challenges.

Conclusion:

To sum up, incorporating educational tools like Kahoot, Socrative, AR, and LMS has the ability to revolutionize the way teaching and learning is approached in primary education. These tools are able to both captivate and inspire students, as well as enable teachers to provide better and more individualized teaching. Educational leaders are crucial in enabling successful technology integration by fostering an innovative culture, supplying essential resources, and backing ongoing learning. As we move forward in the ever-changing tech world, it's crucial to stay committed to building a fair and efficient education system that readies students for what lies ahead.

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