

THE IMAGE AND THE ILLUSTRATED BOOK IN EUROPEAN EDUCATION

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ABSTRACT

The significance of images in education has evolved significantly over the centuries, with illustrated books playing a central role in enhancing learning and comprehension. Since the 16th century, the use of images in education has been intrinsically linked to their ability to facilitate understanding and enrich the learning experience. Images, combined with text, function not merely as decorative elements but as a multidimensional learning mechanism that enhances language, thinking, and the emotional development of students.

The historical evolution of illustrated books, from their early forms during the Enlightenment to the modern digital era, highlights the enduring and growing importance of images in the educational process. Digital tools, interactive visuals, and contemporary educational applications have elevated images into even more powerful learning tools, enabling students to interact actively with content, fostering their creativity, critical thinking, and deeper understanding.

This study focuses on a diachronic analysis of the role of images in education, tracing their use from the 16th century to the digital age. Historical examples and modern tools, such as digital books and interactive learning platforms, are examined to understand the evolution and ongoing importance of images in the educational process. Through a comparative approach to these examples, the study underscores the progression and current significance of images in education while exploring how they enhance learning and adapt to the needs of modern educational systems.

Keywords: Pedagogical value of images, Educational process, Teaching materials, Learning tools, Interactive learning

1.0 INTRODUCTION

Illustration has been one of the most significant factors in the evolution of education, particularly since the invention of the printing press and the widespread dissemination of books. The importance of illustrated books in the pedagogical process lies in their ability to enhance understanding, memory retention, and communication, providing students with the means to better grasp concepts and data. From the Renaissance to the present day, illustrated books have played a pivotal role in education, influencing children's psychological and cognitive development while fostering new pedagogical approaches.

The advent of the printing press in the 15th century marked a pivotal moment in the history of education, enabling the mass production and distribution of books. Before the printing revolution, books were rare and expensive, mainly handwritten, and their content was primarily religious or philosophical. With the rise of printing, books became more accessible and affordable to a larger population. The inclusion of illustrations in these works made knowledge more comprehensible and accessible to a broader audience, especially young learners (Eisner, 2002).

Johann Amos Comenius's work *Orbis Pictus* (The Illustrated World), published in 1658, was a milestone in the history of illustrated books. His work aimed to facilitate teaching and learning basic concepts by matching images with words, making it the first systematic pedagogical book to combine visual and textual representation. The illustrations, paired with text, allowed students to connect words with images, simplifying comprehension and aiding memory retention (Karpinski, 2009). Introducing illustrated books also made learning more enjoyable and engaging, as the images sparked children's curiosity and enhanced their perception of the surrounding reality.

The significance of illustrated books extends beyond meeting learning needs to contributing to children's psychological development. As Piaget (1972) argued, illustrations aid the cognitive process by enabling children to grasp abstract concepts through visual representation. Vygotsky (1978) emphasized that images are crucial tools for social learning, as they facilitate communication and interaction with others, enhancing learning through social interaction and guidance. Images act as "support tools" that link learning to reality, promoting the development of language, thought, and emotional understanding (Levine, 2011).

Illustrated books have proven to be revolutionary tools, advancing pedagogical thought to new levels. Following Comenius's tradition, illustrations and visual formats not only simplified knowledge transmission but also introduced a new perspective on education by incorporating creativity and aesthetics as essential elements of the pedagogical process. In the 21st century, this tradition continues through digital technology and modern illustrated books, which integrate interactive elements to further enhance learning and engagement for children (Miller, 2016).

Illustrated books have provided and continue to provide invaluable contributions to education. Their history, from the Renaissance to the modern era, demonstrates their enduring significance for children's cognitive and emotional development, as well as their capacity to enhance the learning process through visual and verbal communication. Their pedagogical value remains undisputed and ever evolving, reflecting the needs of contemporary education.

2.0 THE INTEGRATION OF ILLUSTRATED BOOKS IN EDUCATION

The introduction of illustrated books into education marked a significant cultural and pedagogical shift, profoundly influencing the learning process over the centuries. The combined use of images and text, facilitated by the printing revolution, shaped new educational perspectives, enhancing understanding and knowledge retention. Gutenberg's innovation not only enabled the mass production of books but also radically transformed pedagogical practices by broadening access to learning. The ability to print books in large numbers and at lower costs not only increased access to knowledge but also restructured the framework of educational

communication, making knowledge more accessible and flexible (Eisenstein, 2005). Printing allowed for the widespread dissemination of scientific and religious works while gradually revitalizing literature across various fields, including children's books.

The integration of illustrated books into the educational process introduced a new teaching approach that aimed to combine visual and linguistic elements to enrich the learning experience. The interplay of images and text not only altered the presentation of knowledge but also made previously inaccessible concepts more approachable, particularly for children (Karpinski, 2009).

Images in books were not limited to decoration or illustration but served as dynamic tools for conceptual understanding, organizing information in ways that facilitated interpretation and absorption. They became multidimensional tools that supported not just learning but also the development of more flexible thinking processes, fostering skills such as synthesis and critical analysis (Dewey, 1938).

Simultaneously, the increasing use of illustrated elements in children's books addressed the need to adapt education for audiences with varied levels of access to knowledge. Books were reimagined as tools offering learning experiences aimed at broadening perceptual abilities and fostering intellectual autonomy. This innovation was particularly evident in Comenius's *Orbis Pictus* (1658), which recognized the pedagogical power of images and became a cornerstone for children's education in the 17th century. Comenius believed that during early childhood, learning should focus on perception and the distinction of objects that children process through their senses. The combination of text and images in his work not only influenced the learning process but also reshaped education's overall approach as a means of fostering a comprehensive aesthetic and cognitive understanding of the world (Comenius, 1658).

The influence of illustrated books on pedagogical thought extended beyond Comenius's work, impacting educational processes and perceptions of learning. During the Renaissance, artists and educators began to recognize the significance of images as educational tools, incorporating them into their works. Albrecht Dürer's illustrations, with their precise and scientific approach to art, used images to explain mathematical and geometrical concepts, making them accessible through visual representation (Koerner, 1993). Dürer's precise illustrations functioned not only as decorative elements but also as essential tools for understanding complex scientific concepts.

During the Baroque period, the evolution of illustrated books continued, aiming to improve the learning process. The combined use of images and text made concepts more understandable and accessible to broader audiences, especially children. Illustrations took on an active role in the learning process, enhancing children's ability to comprehend and assimilate ideas that might have been challenging to grasp through other methods (Eisenstein, 2005).

The connection between images and learning, from the Renaissance to the Baroque period, was pivotal in the development of pedagogical thought. Illustrated works by Dürer and Comenius, among others, established images as learning tools, laying the foundation for their use in future educational systems. Incorporating images into books aided the development of children's intellectual and emotional capacities, heightening their awareness of their environment and improving their ability to process and understand new information (Piaget, 1972; Vygotsky, 1978).

The works of this period contributed to fostering children's creativity and critical thinking while offering a multidimensional approach to learning that transcended rote memorization. Integrated into teaching, images played a fundamental role in shaping learning strategies and creating new opportunities for children's emotional and cognitive development (Vygotsky, 1978).

3.0 THE EVOLUTION AND IMPACT OF ILLUSTRATED BOOKS IN EDUCATION

The use of illustrated books in education has undergone a long and fascinating journey from the 16th century to the modern era, significantly influencing educational practices and learning environments. Over the centuries, images as learning tools have emerged as a critical component of education, reflecting the social, political, and cultural developments of their respective periods. From the Renaissance of the 16th century to the digital revolution of the 21st century, the use of images in teaching has served as a catalyst for enhancing understanding, creativity, and students' cognitive development.

3.1 The Evolution of the Pedagogical Use of Images

The introduction of illustrated books into the educational sphere in the 16th century marked the first step toward the systematic integration of images into the learning process. Comenius's work, *Orbis Pictus* (The Illustrated World), and later initiatives by educators such as Louis Moura highlighted the power of images in teaching by using them as tools to facilitate understanding and cognitive development in children (Jalongo & Isenberg, 2004). During this early period, images were primarily used to familiarize children with the world around them, bridging the gap between imagination and emotional perception.

Building on this foundation, pedagogical methods evolved, incorporating new perspectives on learning that emphasized the role of images in connecting different cognitive domains. Gradually, images transitioned from being mere supplementary elements to becoming central means of expression and knowledge dissemination, while continuing to serve as tools for enhancing imagination. The 18th and 19th centuries witnessed significant developments in education as technological advancements and social changes began shaping new forms of visual learning. This evolution laid the groundwork for more sophisticated applications of images in the educational practices of the 19th and 20th centuries (Mayer, 2009).

Illustrations in educational publications have emerged as a key educational tool. Educational works such as *L'Encyclopédie* by Diderot and d'Alembert (1751- 1772) combined images and text to convey knowledge to readers. In this context, images no longer merely illustrate concepts but also visualize the synthesis of knowledge, highlighting the value of multidimensional learning. In England, John Locke's *Some Thoughts Concerning Education* (1693) influenced the development of pedagogical strategies that leveraged the power of images to advance learning.

The 19th and 20th centuries, fueled by the Industrial Revolution, saw the introduction of new technologies and changes in book production. Illustrated books became widely available, transforming education and making images integral to children's books. In England, Beatrix Potter's works, such as the Peter Rabbit series (1902), used images to combine storytelling with learning, providing children with a way to understand the world through narratives and

illustrations. R. W. Emerson (1861) observed that images contribute to discovering and understanding new representations of the world, thus enhancing the learning process.

The emergence of nation-states during this period emphasized educating children as citizens of society, leading to the systematic introduction of illustrated books into classrooms. Works such as John Tenniel's illustrations for *Alice's Adventures in Wonderland* (1865) marked a significant shift. Images no longer merely represented physical reality but began to explore abstract and imaginative themes, shaping children's perceptions and imagination (Pernick, 2003).

This transition from Enlightenment-era approaches to developmental pedagogy, where images are recognized as tools for nurturing children's emotional and cognitive spheres, represents a pivotal shift in educational philosophy. By acknowledging the role of illustrations in both cognitive and emotional development, pedagogy embraced a more holistic approach to learning that continues to influence educational practices today.

3.2 Modern Education and Illustrated Media

Today, the incorporation of illustrated books into modern education has been redefined by technological advancements and a new understanding of learning. Digital media and interactive applications, such as e-books and educational games, enable students to engage directly with images. Transforming traditional books into digital formats and integrating animated visuals, sound, and interactivity enhances the learning process by allowing students to actively participate and shape their own learning experiences. Comparing Comenius's era with the digital age reveals a significant shift in how children interact with images. While images in the past were passive and dependent on the logic of text, today, they play an active role, serving as facilitators of creative and interactive learning (Kress & van Leeuwen, 2006).

The digital era of the 21st century has brought about a revolutionary modernization of illustrated books. With the advent of e-books and animated images, visuals have become more integrated into the educational process than ever before. Digital books for children and educational applications use interactive images that allow students to engage with content, fostering creativity and critical thinking (Mayer, 2009).

One of the most notable examples of modern education through images is the use of animations and videos for teaching languages and mathematics. For instance, Sesame Street employs images and animations to teach concepts to young children, blending education with entertainment while enhancing language development and emotional intelligence (Zigler & Bishop-Josef, 2006). Similarly, platforms such as Khan Academy and Duolingo utilize digital tools and animations to make learning more accessible, creating interactive environments that promote lifelong learning (Dufresne, 2017).

The modern use of illustrations in education fundamentally differs from the past as students are no longer passive recipients of visuals. Technology enables active participation in learning processes, where images and animations are not merely conveyors of information but interactive learning agents (Plowman, McPake, & Stephen, 2010). Digital tools and platforms allow students to interact with learning objects, create and compose images, and develop their digital and creative skills (Hughes, 2016).

Illustrated books continue to play a crucial role in the educational process of the 21st century. According to research by Bus, Takacs, and Kegel (2015), the interactivity offered by modern digital media enhances student engagement with reading, allowing them to "experience" stories through visuals and interactivity. Integrating sound and animated images provides a multisensory learning experience, improving students' ability to understand and absorb new information.

3.3 The Educational Value of Images: Past and Present

The comparison of illustrated books from the past to the present reveals transformations closely tied to the evolution of educational philosophy and technology. The historical and social contexts of each era left their mark on the use and purpose of illustrated books, defining their function as tools for knowledge transmission and later as mediums for creativity and experimentation (Comenius, 1658; Kress & van Leeuwen, 2006).

Illustrated books of the past adhered to a rigid structure, where images served as supportive elements for text. Works like *Orbis Pictus* by Comenius (1658) incorporated images to facilitate understanding but always in connection with text. This relationship reflected an era focused on organizing knowledge through the objective depiction of the world. Similarly, illustrated works from the Enlightenment period, such as Johann Bernhard Basedow's educational manuals, aimed to cultivate systematic ways of thinking (Kress & van Leeuwen, 2006). In these cases, images functioned as conveyors of concepts in a world where access to knowledge was limited, often reflecting a hierarchical relationship between instructor and student (Said, 1978).

In contrast, modern uses of illustrated books move away from this static perception. Images now hold greater autonomy and often operate on an equal footing with text. The development of technologies such as digital books and augmented reality platforms has transformed the relationship between students and knowledge. The gradual integration of interactive elements has created a learning environment where students actively engage, overturning the passive teaching philosophy. Images today serve as sources of multiple interpretations and tools for fostering creativity (Johnson, 2017). Students are no longer mere consumers of knowledge but co-creators, a development aligned with Vygotsky's (1978) theory of collaborative and social learning, as well as Dewey's (1938) ideas about active student involvement in education. Modern digital books that combine animation, sound, and interactivity exemplify how images can unlock new possibilities for engagement, liberating learning from traditional formats (Kress & van Leeuwen, 2006).

The shift from representation to interaction is directly linked to advances in technology and evolving social approaches to childhood. Illustrated books of the past depicted a world where knowledge had to be presented in strictly defined ways. In contrast, modern education recognizes that knowledge is multidimensional and subjective, emphasizing intercultural and experiential learning. This philosophical shift is evident in the transition from 19th-century illustrated works, such as Hans Christian Andersen's fairy tales, which maintained images as narrative tools despite their artistic depth. In the 20th century, illustrated tales like Beatrix Potter's *The Tale of Peter Rabbit* (1902) marked a shift toward more expressive visual forms aimed at stimulating children's imagination (Potter, 1902). Today, similar approaches find

expressions in digital media that allow for developing multiliteracies, blending images, sound, and interactivity (Kress & van Leeuwen, 2006).

This evolution reflects not only changes in the form of media but also the cultural values conveyed through them. Historically, illustrated books often served as tools of social indoctrination, projecting specific norms and values. Works from the colonial period, for example, used images to reinforce contemporary notions of the "superiority" of Western culture, underscoring the connection between knowledge and power (Said, 1978). Today, images in educational media often aim to challenge these perceptions, promoting inclusivity and multiculturalism. Illustrated books that explore diverse cultural narratives encourage a more participatory and multidimensional approach to learning (Kress & van Leeuwen, 2006).

This shift also reflects the changing role of the student in the learning process. In the past, students were viewed as passive recipients of knowledge, whereas modern education emphasizes their active participation (Comenius, 1658; Kress & van Leeuwen, 2006). Contemporary illustrated media enhances students' ability to interact and create, fostering their critical thinking skills. This change is evident in the use of digital books and interactive learning platforms, which prioritize understanding and engagement (Kress & van Leeuwen, 2006).

The comparison between past and present extends beyond the differences in the use of images to encompass changes in pedagogical and social perceptions of learning. While images in the past adhered to a rigid framework for transmitting knowledge, they are now used to cultivate complexity and creativity, paving the way for a more holistic educational experience (Said, 1978; Kress & van Leeuwen, 2006).

4.0 THE IMPORTANCE OF ILLUSTRATED BOOKS IN THE WORLD OF CHILDREN

Images, as visual representations of the world, play a pivotal role in the psychological and cognitive development of children, particularly in early childhood. A child's ability to process and understand visual information is critical for their developmental trajectory. Images are not merely aesthetic representations; they are closely tied to shaping perceptual, cognitive, and emotional skills, directly impacting how children understand the world around them.

Jean Piaget, in his work on perceptual development, argued that images are foundational to knowledge formation during early life stages. In the sensorimotor stage (0-2 years), images contribute to understanding basic cause-and-effect relationships, offering children initial tools to perceive the external world (Piaget, 1952). As children progress to the concrete operational stage (7-11 years), images play a role in organizing and categorizing concepts, enhancing their ability to recognize and understand objects and ideas through visual representations.

Similarly, Lev Vygotsky emphasized the significance of external representations, such as images, within the context of social interaction. Images act as mediators connecting children to their social environment and enhancing the learning process through linguistic and cognitive interactions with text (Vygotsky, 1978). Through this interaction, children derive meanings, recognize emotional states, and participate in social and emotional scenarios that expand their understanding of human experience.

The psychological importance of images is undeniable in fostering emotional intelligence. As Jerome Bruner (1996) observed, visual stimuli amplify children's emotional responses, helping them grasp concepts like fear, joy, and sadness. Images in children's books create an emotional framework that enables children to identify and comprehend the emotional motivations of characters, thereby enhancing their ability to relate personal experiences to emotional cues.

Incorporating images into the educational process, therefore, transcends mere visual representation of the world. It serves as a crucial psychological tool for developing children's cognitive, emotional, and social skills. As Bruner noted, images help children form mental models, facilitating the understanding and processing of new information (Bruner, 1996). Clark's (1997) theory of extended cognition reinforces this notion, highlighting that images, as external tools, enhance cognitive processing by connecting known and new concepts, thereby strengthening learning and memory processes.

The educational value of illustrated books lies in their ability to enhance the understanding and communication of knowledge, making learning not only accessible but also more comprehensible. The combination of images and text is not merely aesthetic or decorative; it represents a deeper, multidimensional learning mechanism in which images complement text, expanding its meaning and enriching the overall experience for children. This interaction strengthens knowledge as images do more than merely depict described concepts; they often extend and enrich the text's content, providing readers with a comprehensive understanding (Carney & Levin, 2002).

Mayer's (2001) theory of multiple representations underscores the importance of combining images and text to enhance learning. According to this theory, the simultaneous presence of written and visual material facilitates the integration of different types of information, allowing the brain to process them more effectively. The processing of visual stimuli, which is faster and more direct than written information, enables children to grasp concepts and information more naturally and efficiently. Images, as visual representations, make learning more engaging and easier to assimilate, creating a holistic framework that supports and enhances cognitive processes.

The strengthening of critical thinking through illustrated books is another fundamental dimension. When children interact with images, they are prompted to create mental models that reflect their experiences and perceptions. Lillard (2005) argued that this active engagement with images enhances creativity and the ability to connect concepts and situations. Children are encouraged to develop a critical approach to the text, discern relationships between characters, situations, and messages, and recognize the underlying values within the book's content.

The social and cultural dimensions of learning are also highlighted through illustrated books. Vygotsky's (1978) theory on the social and cultural reality of learning suggests that learning is deeply connected to the child's social and cultural environment. Images function as cultural tools that help children situate knowledge within their social and cultural context, broadening their understanding of differences and similarities across cultures and social scenarios. By interacting with images that depict diverse cultural realities, children develop emotional intelligence and social sensitivity.

Children's language development is further supported by the coexistence of images and text. Snow's (2010) research demonstrates the importance of this connection, emphasizing that images act as identifiers for words and concepts, enriching children's vocabulary. With the simultaneous presence of images, children can comprehend new words not only through written explanations but also through visual representation, reinforcing the meaning of words with an experiential and direct connection.

The pedagogical value of illustrated books lies precisely in this synthesis: the active participation of children, the strengthening of emotional and cognitive development, and the integration of social and cultural values into the educational process. The use of images strengthens the learning experience, boosting reading comprehension, creativity, and the ability to synthesize new ideas.

In educational practice, illustrated books are not simply an addition to the learning environment but a deliberate integration of tools that enhance the overall learning experience. They form an essential part of a richer and more differentiated learning environment that reflects children's needs and capabilities while supporting their development holistically and dynamically (Berk, 2009).

5.0 THE ROLE OF IMAGES IN MODERN EDUCATION

In contemporary educational practice, images have become fundamental learning tools, driven by technological advancements and the growth of digital media. The integration of multimedia applications, interactive graphics, and augmented reality opens new possibilities for students, offering unique experiences that enhance deeper understanding and foster creativity. Research shows that visual representations not only serve as aids but also improve the ability to connect new information with prior knowledge (Mayer, 2021). For instance, interactive whiteboards, 3D visualizations, and augmented reality applications allow students to explore complex concepts, such as the structure of DNA or geographical maps, in ways previously unimaginable (Heick, 2019). Today, images are combined with artificial intelligence to create personalized learning experiences, supporting both cognitive development and active student engagement in the learning process (Chaudhary et al., 2020).

As educational practices transition to digital platforms, images take on a role that goes beyond merely supporting text. Artificial intelligence systems, such as adaptive learning environments, leverage images to create educational scenarios tailored to each student's needs (Chaudhary et al., 2020). For example, augmented reality graphics enable students to interact with 3D representations in physics, history, or art, emphasizing experiential learning (Mayer, 2021). In these cases, images are no longer static materials but form part of a dynamic, interactive dialogue with the learner (Heick, 2019).

The potential of images in future education is further amplified by increased access to technology. Images can serve as bridges for students from diverse cultural backgrounds or those with learning difficulties (Chaudhary et al., 2020). Tools like multilingual illustrated manuals or interactive maps can contribute to creating inclusive education (Mayer, 2021). Additionally, images can be incorporated into mixed-reality environments, offering new ways to access content traditionally limited by geographical or social barriers (Heick, 2019).

The next phase of educational imaging also seems tied to fostering critical thinking and creativity. Students are encouraged to move beyond passive viewing to become creators of visual content. Through platforms supporting the design and creation of graphics, students develop skills related to visual storytelling, data analysis, and aesthetic cultivation (Chaudhary et al., 2020). Thus, images are emerging as tools of multiliteracy, enhancing both comprehension and active participation (Mayer, 2021).

However, the expansion of image use in future education comes with challenges. The abundance of visual stimuli necessitates the development of visual literacy skills, enabling students to critically interpret visual content (Heick, 2019). Furthermore, the increased use of digital images raises concerns about privacy and the ethical use of technology (Chaudhary et al., 2020). The future of images in education cannot remain solely defined by technological advancements; it must also be guided by thoughtful and strategic approaches (Mayer, 2021).

In summary, images are expected to remain a crucial component of education, not only as tools for knowledge transmission but also as pillars for developing 21st-century skills. If the educational community successfully integrates the power of images across all levels of the learning process, the educational experience will transform into a more holistic, interactive, and experiential journey. Images will continue to invite us to explore new worlds, both real and imaginary, through the lens of innovation (Heick, 2019).

6.0 CRITICAL REFLECTION AND CONCLUSIONS

Images, from their initial integration into educational practices through illustrated books, have emerged as invaluable tools that transcend teaching to foster intellectual cultivation and cultural reformation, shaping the core of the educational experience across centuries. Their historical journey underscores their enduring value, bridging text and perception, reasoning and experience, and knowledge and imagination, forming an unparalleled medium for communication and learning. From Comenius' illustrated works to contemporary multimedia educational tools, images have consistently served as vehicles for representation, transmission, and transformative development in the learning process.

The gradual evolution of educational image use reflects society's shifting understanding and treatment of knowledge. For example, the illustrated books of the Enlightenment established images as mechanisms for organizing and presenting knowledge, embedding the ideal of comprehending the world through logic and observation. At the same time, they contributed to the popularization of knowledge, widening access to educational material to social groups previously excluded from the learning process.

Throughout the 19th and 20th centuries, images continued to evolve as teaching tools, driving fundamental changes in pedagogical thinking. The recognition of childhood as a distinct developmental stage was accompanied by the creation of educational tools relying on visual representation to enhance perception, memory, and understanding. These developments were informed by discoveries in psychology and educational science, demonstrating the importance of multisensory approaches to learning.

Today, images lie at the heart of the educational experience, often in digital form. The integration of interactive multimedia and augmented reality has created new possibilities for

learning that surpasses traditional print media. Students are no longer passive recipients of knowledge but active participants in shaping the educational process, interacting with images enriched with motion, sound, and functionality. The transition from print to digital media does not diminish the significance of images; rather, it highlights their continuity within the natural progression of science and innovation, reinforcing their role as dynamic learning tools.

The presence of images in digital environments enhances flexibility and personalization in education. Digital technology enables the production of tailored graphics that meet individual student needs, while also promoting global access to knowledge. Additionally, image-based interactive platforms have proven particularly effective for students with learning difficulties, offering them ways to learn better suited to their abilities.

The potential of images in future education remains immeasurable as technology continues to redefine the boundaries of educational practice. However, images cannot be confined to a supplementary or supportive role. Instead, they emerge as independent fields of study and application, emphasizing the importance of visual literacy. Future students must be trained not only in using but also in critically analyzing images, developing skills related to interpreting, synthesizing, and evaluating visual content.

In a world inundated with visual stimuli, images acquire a multidimensional dynamic, influencing not only the learning experience but also how people perceive, understand, and interpret the world. In education, the goal is no longer limited to developing technical skills or absorbing information through visual media; it also encompasses cultivating the ability to critically examine images. Students must recognize the multiple layers of meaning embedded in each image, understand their social and historical contexts, and use them as tools for expression and creativity.

The continuous evolution of images in education and beyond provides an important lesson: their power extends beyond visual representation to include their potential for communication, collaboration, and transformation of perception. This perspective paves the way for an education that seeks not only to transmit knowledge but also to enrich thought and perception, creating connections between the present and the future.

The present already provides the foundations for understanding this transition, as contemporary technology enables students to actively shape knowledge by leveraging the power of images through digital and interactive environments. However, the future demands a deeper understanding of how images can serve as tools for reflection and renewal, both in educational practice and broader social experience.

REFERENCES

Andersen, H. C. (1835). *Fairy tales told for children*.

Berk, L. E. (2009). *Child development*. Pearson Education.

Bruner, J. (1996). *The culture of education*. Harvard University Press.

- Bus, A. G., Takacs, Z. K., & Kegel, C. A. T. (2015). Benefits of electronic books in early literacy instruction. *Journal of Computer Assisted Learning*, 31(2), 201-213.
- Carney, R. N., & Levin, J. R. (2002). Pictorial illustrations still improve students' learning from text. *Educational Psychology Review*, 14(1), 5–26.
<https://doi.org/10.1023/A:1013176309260>
- Chaudhary, A., Jain, S., & Singh, P. (2020). Artificial intelligence in education: A review on applications and impacts. *Educational Technology Research and Development*, 68(2), 1121-1135.
- Clark, A. (1997). *Being there: Putting brain, body, and world together again*. MIT Press.
- Comenius, J. A. (1658). *Orbis pictus*.
- Dewey, J. (1938). *Experience and education*. Macmillan.
- Diderot, D., & d'Alembert, J. (1751-1772). *L' Encyclopédie*. Paris.
- Dufresne, A. (2017). Khan Academy: Revolutionizing education through digital learning tools. *Educational Technology & Society*, 20(4), 10-21.
- Eisenstein, E. L. (2005). *The printing revolution in early modern Europe*. Cambridge University Press.
- Eisner, E. (2002). *The arts and the creation of mind*. Yale University Press.
- Emerson, R. W. (1861). *The conduct of life*. James R. Osgood & Co.
- Goleman, D. (1995). *Emotional intelligence*. Bantam Books.
- Heick, T. (2019). The role of augmented reality in modern education. *EdTech Magazine*.
- Hughes, J. E. (2016). Digital tools in the classroom: How technology is shaping modern education. *Journal of Educational Technology*, 33(3), 45-56.
- Jalongo, M. R., & Isenberg, J. P. (2004). *Exploring your role: A practitioner's introduction to early childhood education*. Pearson.
- Johnson, A. (2017). Cultivating visual literacy in early years education. *Educational Review*, 39(2), 145-158.
- Karpinski, R. (2009). *Comenius and the concept of universal education*. Peter Lang Publishing.
- Koerner, J. L. (1993). *The moment of self-portraiture in German Renaissance art*. University of Chicago Press
- Kress, G., & van Leeuwen, T. (2006). *Reading images: The grammar of visual design*. Routledge.

- Levine, M. (2011). *A mind at a time*. Simon & Schuster.
- Lillard, A. S. (2005). Piaget's constructionism: A review of the current literature. *Educational Psychologist*, 40(2), 98-107.
- Locke, J. (1693). *Some thoughts concerning education*. London.
- Mayer, R. E. (2001). *Multimedia learning* (1st ed.). Cambridge University Press.
- Mayer, R. E. (2009). *Multimedia learning* (2nd ed.). Cambridge University Press.
- Mayer, R. E. (2021). *Multimedia learning* (3rd ed.). Cambridge University Press.
- Miller, S. M. (2016). The impact of digital media on early childhood education. *Early Childhood Education Journal*, 44(1), 5-15.
- Mitchell, W. J. T. (2005). *What do pictures want? The lives and loves of images*. University of Chicago Press.
- Bus, A. G., Takacs, Z. K., & Kegel, C. A. T. (2015). Benefits of electronic books in early literacy instruction. *Journal of Computer Assisted Learning*, 31(2), 201-213.
- Piaget, J. (1952). *The origins of intelligence in children*. International Universities Press.
- Piaget, J. (1972). *The psychology of the child*. Basic Books.
- Plowman, L., McPake, J., & Stephen, C. (2010). The influence of young children's use of technology on their learning: A review. *Journal of Computer Assisted Learning*, 26(5), 359-371.
- Postman, N. (1992). *Technopoly: The surrender of culture to technology*. Vintage Books.
- Potter, B. (1902). *The tale of Peter Rabbit*. Frederick Warne & Co.
- Said, E. W. (1978). *Orientalism*. Vintage.
- Snow, C. E. (2010). Academic language and the challenge of reading for learning about science. *Science*, 328(5977), 450-452.
- Vygotsky, L. S. (1978). *Mind in society: The development of higher psychological processes*. Harvard University Press.
- Zigler, E., & Bishop-Josef, S. J. (2006). The effects of Sesame Street on the development of young children. *Child Development Perspectives*, 1(4), 169-176.