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Educational and Developmental Psychology: Artistic Growth and Young Learners' Responses to Old Master Paintings

Jannat Khalid

Former Education Consultant, UNESCO, Email: jkkhalid@gmail.com

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Abstract

This study investigates the impact of Old Master paintings on young learners, particularly their reactions to the iconic works of Michelangelo. The research centred on the Sistine Chapel, painted between 1508 and 1512 during the High Renaissance. Learners of various ages were introduced to these masterpieces and then invited to create their own interpretations using oil pastels. The emphasis was not on replicating the technical prowess of Michelangelo but rather on developing creativity and imaginative expression. Through this hands-on approach, the study aimed to explore how early exposure to complex artworks can stimulate cognitive, psychological and artistic development, encouraging learners to engage deeply with art and history in a way that is both educational and personally meaningful.

Keywords: Artistic Cognitive Development, Classical Art in Education, Child Development through Art, Symbolic Learning and Interpretation, Creative Thinking in Early Education, Old Master Paintings in Curriculum

Introduction

Art education holds a crucial place in the holistic development of learners, contributing to cognitive, emotional, and social growth. Educational contexts have widely studied contemporary art forms, but the impact of classical art, particularly the works of Old Masters like Michelangelo, on young learners remains relatively unexplored. This study seeks to address this gap by examining how early exposure to Old Master paintings influences learners' artistic development and cognitive engagement. The focus of this research is on young learners' responses to the iconic works of Michelangelo, particularly his frescoes in the Sistine Chapel and his self-portrait. These masterpieces, created between 1508 and 1512, are not only celebrated for their artistic excellence but also for their profound impact on the history of art. By introducing learners to these complex works at a formative stage in their cognitive and artistic development, this study aims to uncover how classical art can inspire creativity, enhance understanding, and develop emotional and cognitive growth. This study is grounded in the principles of educational and developmental psychology, drawing on the theories of cognitive development, artistic growth, and experiential learning. Specifically, it explores how learners in different developmental stages respond to the visual and thematic elements of Old Master paintings, how these responses reflect their cognitive and emotional maturity, and what this reveals about the broader role of art in education.

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Fig1: Self-portrait of Michelangelo¹ and the Sistine Chapel²

The **objectives** of this study are threefold: first, to explore the immediate reactions of young learners to Old Master paintings; second, to analyse how these reactions vary according to age and developmental stage; and third, to assess the implications of these findings for art education practices. By doing so, the research aims to contribute to a deeper understanding of how art can be effectively integrated into early childhood education to support comprehensive developmental outcomes.

Literature Review

Overview of Educational and Developmental Psychology

Educational psychology focuses on understanding how individuals learn and develop within educational environments, encompassing cognitive, emotional, and social dimensions (Eisner, 2002). Developmental psychology, meanwhile, examines changes that occur throughout the lifespan, with a particular emphasis on childhood and adolescence (Piaget, 1952). These fields intersect significantly in studying how learners engage with and grow through artistic experiences, making them essential to understanding the developmental impact of art education.

Cognitive Development in Early Childhood

Theories of cognitive development, particularly those introduced by Jean Piaget, are foundational in understanding how learners perceive and interpret art (Piaget, 1952). Piaget identified distinct stages of cognitive development, with the preoperational stage (ages 2–7) being particularly pertinent to this study. During this stage, learners begin to use symbols and language to represent objects and ideas, although their thinking remains largely egocentric and concrete (Golomb, 1992). Art, as a symbolic form of expression, plays a crucial role in helping learners develop more complex cognitive abilities. For instance, through drawing and painting, learners manipulate symbols, visually represent their thoughts, and engage in abstract thinking. These activities are not only enjoyable but also essential for cognitive growth, encouraging learners to think critically and solve problems creatively (Gardner, 1993; Thompson, 1995).

The Role of Art in Cognitive and Emotional Development

Artistic activities engage multiple forms of intelligence, as outlined by Howard Gardner in his theory of multiple intelligences (Gardner, 1993). According to Gardner, art education particularly taps into visual-spatial intelligence, which involves the ability to perceive and manipulate visual

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¹ http://www.arteestdefamo.com/images/michelangelo-portrait.jpg

² http://m.c.lnkd.licdn.com/mpr/mpr/p/4/005/08c/088/1559f96.jpg

information. Moreover, art also engages bodily-kinaesthetic intelligence, as learners physically interact with materials, and interpersonal intelligence, as they share and discuss their work with others (Eisner, 2002). Art is also a powerful medium for emotional development. It provides learners with a safe space to express their feelings, process complex emotions, and make sense of their experiences (Malchiodi, 1998). Through art, learners can explore their identities, experiment with different perspectives, and develop empathy by understanding the emotions conveyed in others' artworks. These emotional benefits are particularly significant in early childhood, a period marked by rapid emotional and social development (Dissanayake, 2001; Matthews, 1999). Thus, introducing art as a subject at a child's early age can impact their emotional and psychological development.

Influence of Old Masters on Art Education

Old Master paintings, created by artists such as Michelangelo, Leonardo da Vinci, and Rembrandt, are often considered the pinnacle of artistic achievement (Gombrich, 1960). These works have profoundly influenced art history and continue to shape contemporary art education (Read, 1956). Introducing learners to Old Master paintings can provide them with a rich visual language, offering insights into different styles, techniques, and cultural contexts (Berger, 1972; Arnheim, 1974). However, the complexity of these artworks can also present challenges. Learners may struggle to engage with the detailed narratives and symbolic meanings embedded in Old Master paintings (Golomb, 1992). Despite these challenges, such exposure is invaluable as it encourages learners to think deeply about art, ask questions, and develop an appreciation for the historical and cultural significance of these works (Kindler & Darras, 1997; Burton, 2000).

John Dewey and Experience Learning

John Dewey's philosophy of education, particularly his emphasis on experiential learning, provides a theoretical foundation for this study. Dewey argued that education should be an active process grounded in experience and interaction with the world (Dewey, 1938). In the context of art education, this means that learners gain the most when they are actively engaged in creating and interpreting art rather than passively receiving information (Smith, 1993). Dewey's concept of "art as experience" is particularly relevant to this study. He advocated for integrating art into everyday life not just for aesthetic appreciation but as a tool for understanding and interacting with the world (Dewey, 1938). This study applies Dewey's ideas by exploring how learners experience and respond to Old Master paintings, using these experiences as catalysts for cognitive and emotional growth (Eisner, 2002; Wilson & Wilson, 1982).

Interpretation and Developmental Stages

Research on learners' responses to art reveals a close relationship between their interpretations and their developmental stages and personal experiences (Golomb, 1992; Thompson, 1995). Younger learners tend to focus on the literal content of artworks, while older learners are more likely to engage with abstract and symbolic elements (Gardner, 1993). Additionally, research has shown that learners' cultural backgrounds significantly shape their interpretation and appreciation of art (Dissanayake, 2001). For example, a study by Gardner (1980) found that learners' drawings evolve from simple, spontaneous scribbles to more complex, representational images as they develop. This progression reflects their growing ability to understand and manipulate symbols, as well as their increasing awareness of the social and cultural meanings attached to different forms of art (Malchiodi, 1998). These findings underscore the importance of considering developmental and cultural factors when introducing learners to art, particularly complex works like those of the Old Masters. By understanding how learners at different stages of development respond to art, educators can tailor their teaching strategies to support each learner's cognitive and emotional growth (Lowenfeld & Brittain, 1987; Winner & Hetland, 2000).

Methodology

This study utilised a qualitative research design to explore the responses of young learners to Old Master paintings. A qualitative approach was selected due to its effectiveness in capturing the nuanced and subjective experiences of learners, particularly in contexts involving creativity and emotional expression. The study's objective was to understand not only what learners think about classical art but also how they engage with it on cognitive and emotional levels. By employing indepth observations and interviews, the research aimed to uncover patterns in the learners' interactions with art that might not be apparent through quantitative methods.

Participants and Sampling

Participants were selected through purposive sampling, which involves choosing individuals who are most likely to provide rich and relevant data. The study included a small, diverse group of three siblings aged 3 to 8 years, representing different developmental stages as outlined in Piaget's theory of cognitive development. These siblings shared a similar developmental environment, providing a unique opportunity to examine how school exposure and lack thereof influence their responses to classical art.

- **Dua**: An eight-year-old girl in Grade III, with a basic level of art instruction but limited exposure to classical art. Her cognitive abilities are transitioning from concrete operational thinking to more abstract reasoning. Her school exposure provides insights into how formal education influences her artistic interpretations.
- **Hussain**: A six-year-old boy in Grade I who is enthusiastic about art but has primarily been exposed to simple, representational drawing tasks in school. His inclusion allows for an examination of how learners in the early stages of concrete operational thinking engage with art. Hussain's responses highlight the impact of early school-based art education on learners' cognitive and creative processes.
- **Fizzah**: A three-year-old girl who is homeschooled and has had minimal exposure to formal art education. As the youngest participant, her responses provide insight into how very young learners, who are in the preoperational stage, perceive and interact with Old Master paintings. Fizzah's lack of formal school exposure contrasts with her siblings' experiences, offering a perspective on how homeschooling shapes artistic and cognitive development.

Below are examples of how the data could be visualised:

Table 1: Participant Demographics and Educational Exposure

Participant	Age	Grade Level	Educational Exposure	Cognitive Development Stage	Artistic Experience Level
Dua	8	Grade III	The school (formal art instruction)	Concrete operational/abstract reasoning	Basic
Hussain	6	Grade I	School (basic art tasks)	Early concrete operational	Basic
Fizzah	3	N/A	Homeschooled (no formal art)	Preoperational	Minimal

Table 2: Thematic Analysis of Learners' Responses

Theme	Dua	Hussain	Fizzah	
Emotional	High (curiosity,	Moderate (curiosity,	High (Sensory	
Engagement	excitement)	enjoyment)	Enjoyment)	
Artistic	Attempts to abstract	Focusses on colours	Focuses on sensory	
Interpretation	reasoning relates to stories	and shapes	experience	
Cognitive	Reflects on the difficulty	Curious about	Engages through play and experimentation	
Reflection	of the task, understands	technique, mimics		
	complexity	styles	and experimentation	

To ensure a fair and comprehensive analysis of the cognitive engagement of all three participants Dua, Hussain, and Fizzah across the categories of **Abstract Reasoning**, **Technical Curiosity**, and **Sensory Exploration** will be analysed. It is essential to evaluate each learner against all these categories. This approach will provide a more balanced comparison and deeper insights into how each child interacts with and interprets Old Master paintings based on their developmental stage and educational exposure.

Data Collection Methods

Data were collected using multiple qualitative methods, including semi-structured interviews, observational notes, and analysis of the learners' artwork.

- **Interviews**: Semi-structured interviews were conducted with each learner to explore their thoughts and feelings about the Old Master paintings. The questions were designed to be open-ended, allowing learners to express themselves freely. The interviews were audio-recorded and later transcribed for analysis.
- **Observational Notes**: During the art-making sessions, detailed observational notes were taken to capture the learners' behaviour, facial expressions, and interactions with the materials and each other. This data provided additional context to the verbal responses, offering insights into the learners' engagement and emotional reactions.
- **Artwork Analysis**: The learners' drawings and paintings were collected and analysed for elements such as use of colour, composition, and symbolic representation. The artworks were compared to the original Old Master paintings to identify any direct influences or reinterpretations.

Data Analysis

The collected data were analysed using thematic analysis, which involves identifying, analysing, and reporting patterns (themes) within the data. The analysis was conducted in several stages:

- 1. **Familiarisation**: All data (interviews, observations, and artwork) were reviewed multiple times to gain a deep understanding of the content.
- 2. **Coding**: Initial codes were generated to identify significant features of the data. For instance, codes related to emotional reactions (e.g., "curiosity," "confusion," "excitement") were developed.
- 3. **Theme Development**: These codes were then organised into broader themes that captured key aspects of the learners' responses. For example, themes like "emotional engagement," "artistic interpretation," and "cognitive reflection" were identified.

4. **Comparison across Participants**: Themes were compared across the three learners to identify similarities and differences in their responses based on their developmental stage and educational exposure.

Findings

Learner's Engagement with Old Master Paintings

The learner's initial engagement with the Old Master paintings was characterised by a mixture of curiosity, confusion, and awe. Dua, the oldest participant, immediately recognised the historical significance of the artworks, expressing a desire to understand the stories behind the images. She asked questions about the figures and symbols in the paintings, indicating a cognitive engagement that went beyond mere aesthetic appreciation.

Hussain, on the other hand, was more focused on the visual elements of the paintings. He was particularly drawn to the bright colours and intricate details, which he attempted to replicate in his own drawings. His engagement was more about the sensory experience of the art, reflecting his developmental stage, where concrete visual stimuli are most captivating.

Fizzah's engagement was the most basic, as expected given her age. She was fascinated by the colours and shapes but did not attempt to understand the paintings' content or context. Her interaction with the artworks was primarily sensory and exploratory, as she experimented with different materials and techniques in her own drawings.



Fig: 2. Dua, Hussain and Fiza enjoy drawing

Differences in Responses Based on Age and Developmental Stage

The study found significant differences in how the learners responded to the Old Master paintings, which correlated with their age and developmental stage. Dua's responses were the most sophisticated, reflecting her ability to think abstractly and engage with the symbolic meanings of the artworks. She was able to articulate her thoughts about the paintings, often making connections between the images and her own experiences or knowledge. Hussain's responses were more focused on the technical aspects of the paintings, such as colour and composition. He showed an interest in how the artworks were created, often asking about the techniques and materials used by

the artists. His drawings reflected a mix of observation and imagination, as he tried to replicate some of the visual elements, he found most striking.

Fizzah's responses were the least verbal but still meaningful. She engaged with the artworks primarily through play and exploration, using her drawings to experiment with colours and shapes. Her work was more abstract and less representational, reflecting her developmental stage where symbolic thinking is just beginning to emerge.

The Role of Imagination and Creativity

Imagination and creativity played a crucial role in how the learners responded to the Old Master paintings. Dua used her imagination to create stories about the figures in the paintings, often reinterpreting them in ways that reflected her interests and experiences. For example, she imagined one of the figures as a character from a story she had read, integrating elements of the painting into her narrative. Hussain's creativity was more focused on the visual aspects of the paintings. He experimented with different ways of using colour and texture in his drawings, often trying to mimic the techniques he observed in the artworks. His creativity was more about problem-solving and experimentation as he tried to figure out how the artists achieved certain effects. Fizzah's creativity was the most free-form, as she used her drawings to explore basic concepts like colour, shape, and texture. Her work was highly imaginative, though not in a representational sense. Instead, she used her drawings to play with ideas and sensations, often giving whimsical names to the shapes and patterns she created.







Dua Ali

Hussain Ali

Fiza Ali

Emotional and Cognitive Reactions

The emotional and cognitive reactions of the learners varied widely, reflecting their developmental stages and personal experiences. Dua's reactions were the most complex, as she oscillated between fascination and frustration. She was deeply interested in the paintings but also found them challenging to understand, which led to moments of frustration when she couldn't immediately grasp their meaning. Hussain's emotional reactions were more straightforward. He was primarily excited by the visual aspects of the paintings, which he found beautiful and intriguing. He concentrated his cognitive engagement on comprehending the creation process of the artworks, not their meaning. Fizzah's emotional responses are closely correlated with her sensory experiences. She seemed to find joy in the act of drawing itself, regardless of the content of her work. Her cognitive engagement was minimal, as she was more focused on the physical process of creating art than on interpreting the Old Master paintings.

Discussion

Interpretation of Findings

The findings of this study reveal several key insights into how young learners engage with and respond to Old Master paintings, with their reactions being closely tied to their cognitive

development and personal experiences. The study supports existing theories of cognitive development, such as those proposed by Piaget, which suggest that learner's ability to interpret and understand complex visual stimuli evolves significantly as they grow. For instance, Dua, the oldest participant, demonstrated a higher level of cognitive engagement, as she was able to interpret the symbolic and narrative elements of the paintings. This aligns with Piaget's theory that learners in the concrete operational stage (ages 7-11) begin to think logically about concrete events and can understand the concept of conservation, as well as other aspects of cognitive development like classification and seriation. Dua's ability to relate the paintings to her own experiences and prior knowledge indicates that she is beginning to transition into more abstract thinking, a hallmark of the formal operational stage. Hussain's focus on the visual and technical aspects of the paintings reflects his stage of development, where concrete operational thinking dominates, and his cognitive processes are still closely tied to physical and sensory experiences. His questions about the techniques used by the artists suggest an emerging interest in the mechanics of art, which could be nurtured to enhance both his cognitive and artistic skills. Fizzah's engagement was primarily sensory and exploratory, typical of a child in the preoperational stage (ages 2-7), where symbolic thinking is just beginning to emerge. Her abstract and playful approach to drawing indicates that her interactions with art are more about exploration and experimentation than about understanding or interpretation. This supports Vygotsky's theory of the zone of proximal development (ZPD), suggesting that Fizzah's artistic growth could be significantly enhanced through guided interaction with more knowledgeable individuals (such as teachers or older peers).

Implications for Art Education

The study's findings have several important implications for art education, particularly in early childhood settings. First, the research underscores the importance of tailoring art education to the developmental stages of the learners. For younger learners like Fizzah, art activities should focus on exploration and sensory engagement, allowing them to experiment with materials and techniques without the pressure of producing a specific outcome. For older learners like Dua and Hussain, art education can begin to incorporate more structured activities that encourage critical thinking and problem-solving, as well as opportunities to engage with complex visual narratives. Additionally, the findings suggest that exposure to Old Master paintings can be a valuable tool for enhancing cognitive and emotional development, even in very young learners. By introducing these artworks in an age-appropriate manner, educators can help learners develop a deeper appreciation for art and its historical and cultural significance. This exposure can also stimulate imagination and creativity, as learners are encouraged to reinterpret and engage with the artworks in ways that reflect their own experiences and understanding. The study also highlights the potential benefits of integrating experiential learning, as advocated by John Dewey, into art education. By allowing learners to engage directly with art through hands-on activities and personal interpretation, educators can create a more dynamic and meaningful learning experience. This approach not only supports artistic development but also enhances broader cognitive and emotional skills, such as critical thinking, empathy, and self-expression.

The Role of Experiential Learning in Artistic Development

The findings strongly support Dewey's concept of experiential learning, which posits that education is most effective when it is rooted in direct experience. In the context of this study, the learner's interactions with Old Master paintings were not merely about learning facts or replicating techniques; they were about experiencing art as a process of discovery and personal expression. For Dua, experiential learning was evident in her ability to connect the paintings to her own life and experiences. Her imaginative reinterpretation of the figures in the paintings demonstrates how experiential learning can lead to deeper cognitive engagement and understanding. By actively

participating in the process of interpreting and creating art, Dua was able to develop her critical thinking skills and enhance her understanding of complex visual narratives. Hussain's engagement with the technical aspects of the paintings also illustrates the value of experiential learning. His curiosity about how the artworks were created reflects an active, inquiry-based approach to learning that is central to Dewey's philosophy. Through hands-on experimentation with drawing and painting, Hussain was able to explore the relationship between technique and expression, a key component of artistic development. Fizzah's sensory exploration of art materials further underscores the importance of experiential learning in early childhood. For her, the act of drawing was not just about producing an image but about experiencing the tactile and visual sensations of working with different materials. Engaging in this kind of sensory engagement is crucial for enhancing fine motor skills and encouraging a passion for learning that stems from curiosity and exploration.

Comparisons with Existing Literature

The findings of this study align with and extend the existing literature on learner's responses to art. Previous research has shown that learner's engagement with art is closely tied to their developmental stage, with younger learners focusing more on sensory experiences and older learners beginning to engage with more abstract and symbolic content. This study supports these findings by demonstrating that learners' responses to Old Master paintings vary according to their age and cognitive development. Moreover, the study contributes to the literature by highlighting the role of experiential learning in artistic development. While much of the existing research has focused on the cognitive benefits of art education, this study emphasises the importance of handson, experience-based learning as a means of fostering both cognitive and emotional growth. By allowing learners to engage directly with complex artworks like those of the Old Masters, educators can create rich, meaningful learning experiences that support holistic development. The study also offers new insights into how learners reinterpret and personalise classical art a topic that has received relatively little attention in the literature. The learner's imaginative reworking of the Old Master paintings suggests that even very young learners are capable of engaging with complex visual material in creative and meaningful ways. This finding has important implications for art education, suggesting that educators should provide opportunities for learners to explore and interpret classical art in ways that are personally relevant to them.

Conclusion

Summary of Key Findings

This study explored the responses of young learners to Old Master paintings, focusing on how these artworks influenced their cognitive and emotional development. The findings revealed that learner's engagement with the paintings varied significantly according to their age and developmental stage. Older learners, like Dua, were able to engage with the symbolic and narrative content of the paintings, reflecting their emerging ability to think abstractly. Younger learners, like Fizzah, interacted with the artworks primarily through sensory exploration, reflecting their developmental stage where symbolic thinking is just beginning to emerge. The study also highlighted the importance of imagination and creativity in learners' responses to art. Their drawings and interpretations of the Old Master paintings demonstrated their ability to engage with complex visual material in imaginative and personally meaningful ways. This finding underscores the value of art education in developing creativity and critical thinking skills in young learners.

Limitations of the Study

While the study provides valuable insights into how learners engage with classical art, it is not without its limitations. The small sample size limits the generalisability of the findings, as the

responses of the three learners studied may not be representative of all learners in this age group. Additionally, the study's focus on a specific cultural and historical context (the Old Master paintings) means that the findings may not be applicable to other types of art or cultural contexts. Another limitation is the potential influence of the researcher's presence during the data collection process. Despite my best efforts to create a comfortable and non-intrusive environment, the learners' awareness of observation and interview may have altered their behaviour or responses.

Recommendations for Future Research

Given the limitations of this study, future research should aim to expand its focus by including a larger and more diverse group of participants. This would allow for a deeper understanding of how learners from different cultural backgrounds, with varying levels of exposure to art, respond to Old Master paintings. Additionally, longitudinal studies could help track how learners' responses to art change over time as they grow and develop, offering valuable insights into their evolving perspectives. Many schools tend to overlook and treat art as a non-essential subject. Despite its crucial role in supporting cognitive development, creativity, and critical thinking, art often fails to receive the recognition it deserves. Many educational institutions fail to see how art serves as a fundamental part of understanding concepts across various subjects. Art educators and researchers need to address this issue and promote the importance of art in the curriculum, highlighting how it contributes to a well-rounded education. Future studies could also investigate the effects of different types of art on learners' cognitive and emotional growth. For example, research could compare how learners respond to abstract versus representational art or how their reactions differ between contemporary and classical works. These comparisons would provide greater insights into how various forms of visual stimuli influence artistic understanding and intellectual development.

Implications for Educators and Psychologists

The findings of this study carry several important implications for educators and psychologists who work with young learners. First, the research emphasises the need for art education that is tailored to the developmental stages and interests of the learners. Providing opportunities for both sensory exploration and critical engagement with art can help support cognitive and emotional growth in a more comprehensive way. The study also points to the value of introducing classical art at an early age. Exposure to complex works, such as Old Master paintings, can play a key role in enhancing creativity, critical thinking, and cultural understanding. Educators are encouraged to integrate these artworks into their lessons, using them to ignite learners' imaginations and build a stronger appreciation for both art and history. Lastly, the research highlights the significance of experiential learning in art education. When learners engage directly with art through hands-on activities and personal interpretation, it leads to rich and meaningful experiences. These interactions can help develop a wide array of cognitive, emotional, and social skills, creating an environment where learners grow both intellectually and creatively.

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