Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini

Volume 14, Number 2, 2025 pages 356-372 P-ISSN: 2301-9905 E-ISSN: 2775-409X

Open Access: https://jurnal.umt.ac.id/index.php/ceria/index

Improving Early Childhood Cognitive Skills Through

Geometry Pouch Media

Intan Novriyanti¹, Zahra Zetira*²

Universitas Jambi, Jambi, Indonesia

e-mail: 1ms.intannovriyanti@gmail.com, 2*zahrazetira54@gmail.com

ARTICLE INFO

Article history:

Received: June 20, 2025 Accepted: July 17, 2025 Available online on: July 31, 2025

Keywords:

Geometry pouch media, early childhood, cognitive development, geometry shapes, play-based learning

Copyright ©2025 by Authors. Published by Universitas Muhammadiyah Tangerang

ABSTRACT

This study aims to improve the cognitive abilities of early childhood through shape and color guessing games using flannel-based geometry pouch media. This media is designed to introduce basic geometry concepts interactively, integrating the principles of learning through play. The research method used is a qualitative study with a literature review approach. The results show that the flannel-based geometry pouch media is effective in enhancing children's cognitive abilities, especially in recognizing shapes and colors, while also creating a fun and interactive learning experience for students. This literature review does not involve direct interaction with research subjects, but rather emphasizes the analysis of reading materials and written information.

Introduction

Early Childhood Education (ECE) serves as a critical foundation for the development of children aged 0–6 years. This period is often referred to as the "golden age" because children are highly sensitive to various stimuli (Setiani, 2013). ECE aims to provide educational stimulation so that children are optimally prepared to progress to the next level of education.

356 | How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

Education for preschool children requires a special approach through engaging play activities that directly involve the child. The goal is for children not only to understand concepts but also to enjoy the process and be inspired to enhance their creativity (Mukhlis, 2013; Sarasehan et al., 2020). ECE educators need to determine appropriate learning strategies and tools that align with children's characteristics to achieve effective and enjoyable learning (Supena & Hasanah, 2020).

Learning media plays a very vital role in supporting the success of education in early childhood. Interesting, innovative, and developmentally appropriate learning tools or resources can increase children's motivation and ability to learn. Research has shown that well-designed learning media can stimulate children's development, including their cognitive aspects. For example, a study by Yunastiti (2015) found that twister games can improve children's understanding of geometric concepts in group B.

According to Wasik (in Hrp et al., 2018), geometry concepts for early childhood involve identifying shapes, analyzing structures, and grouping geometric images. One effective tool for teaching geometry concepts is the geometry pouch, made from flannel material and used to help children recognize various geometric shapes such as circles, triangles, squares, and diamonds. Geometry pouches involve children in fun manipulative activities, enhancing their thinking abilities while also fostering imagination and creativity. Thus, geometry pouches can improve children's learning outcomes by increasing their interest and

^{357 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

enthusiasm for learning.

This study aims to develop the geometry pouch as an effective instructional tool to improve the thinking abilities of kindergarten-aged children. The research focuses on how this tool can help children recognize and understand geometric shapes in a fun and interactive way. The results of this literature review are expected to provide insights and references for ECE educators in developing innovative and effective learning media to enhance children's thinking skills.

Methods

This research falls into the category of qualitative research using a literature review method. This method involves tracing and evaluating relevant theoretical references to understand the issues being studied. According to Zed (2008), a literature review is a series of activities involving the collection of data from various literary sources through reading, note-taking, and analyzing materials related to the research.

This literature review does not include direct interaction with research subjects but emphasizes the analysis of reading materials and written information. Nuryana et al. (2019) stated that a literature review is a method used to solve problems through the examination of sources that are processed into text, including the analysis, comparison, summarization, and categorization of textual sources.

The information in this study was obtained from scientific articles and literature related to encouraging cognitive development in early childhood using geometry pouch media. This literature review aims to

^{358 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

provide a comprehensive overview of the current state of knowledge on the topic of geometry education for young children. The review was conducted by examining and assessing relevant articles—using 10 articles related to the topic, published within the last five years (2018–2023), and utilizing the internet to obtain additional sources.

Results and Discussions

The findings from ten studies collectively highlight the positive impact of various learning media on the cognitive development of early childhood, especially in recognizing geometric shapes. From the use of hands-on materials like rainbow stones and block play to digital innovations such as geoboard applications and ethnomathematics-based content, each study supports the idea that interactive, contextual, and engaging media foster better understanding and retention of geometric concepts. Whether grounded in cultural context, technology, or natural materials, the implementation of learning tools not only improves shape recognition but also enhances motivation, fine motor coordination, and active participation among young learners. These studies offer compelling evidence for educators to incorporate diverse and developmentally appropriate media in early childhood education.

No.	Title	Year	Authors	Research Findings	Implementation
					Method

^{359 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

1	Magic Bo	oard	2022	Anggia	The use of magic	Teachers used the
	Media in Geom	etry		Maghfiro	board media	magic board as a
	Learning			Safitri, Ika Fitri	significantly	visual aid.
				Apriani	enhances students'	Students drew
					understanding of	various shapes on
					geometric	the board
					concepts. Students	individually or in
					became more	groups and were
					interested and	challenged to
					actively engaged in	create new shapes
					learning through	in a fun, engaging
					hands-on activities	environment.
					such as drawing	
					and manipulating	
					geometric shapes.	

2	The Use of	2017	Sari, A. W.,	Ethnomathematics-	Teachers
	Ethnomathematics-		Farida, F. G.	based media	integrated local
	Based Geometry		Putra	effectively improve	culture, using
	Learning Media			understanding of	traditional crafts or
				spatial and	local architecture.
				geometric	Activities included
				concepts. Relating	group discussions
				materials to local	and creative
				culture makes	projects to model
				geometry more	shapes based on
				relevant and	cultural elements.
				meaningful.	
3	Improving	2016	L. P. I. Harini, I.	ICT-based learning	Teachers received
	Geometry		M. Widiartha,	significantly	training and used
	Learning Quality		N. A. Sanjaya	improves	interactive apps
	with ICT-Based			understanding of	and geometry
	Learning Media			geometry	software to explain
				compared to	concepts like area,
				conventional	volume, and shape
				methods. Students	properties,
				showed greater	supported by
				motivation and	simulations and
				better scores.	hands-on practice.

^{361 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

4	Analysis of the Use	2022	Maria Ulfah	Media such as	Teachers
	of Learning Media		Sopany, Taopik	worksheets,	developed hands-
	to Facilitate the		Rahman, Edi	posters, and	on tools and
	Introduction of		Hendri	magazines help	applied game-
	Geometric Shapes		Mulyana	introduce	based strategies
				geometry to young	like the "Shape
				children but often	Hunt" to keep
				fail to maintain	children physically
				their interest. More	active while
				engaging media is	identifying shapes
				needed.	in their
					surroundings.
5	Development of	2021	Lutfi	GoGeo was found	Teachers used the
	GoGeo Media for		Hikmatwati,	to be highly	GoGeo app with
	Introducing		Hayati M	suitable for early	interactive games
	Geometric Shapes			childhood shape	involving visual
	to Children			recognition. Expert	and audio cues.
				validation and	Students also
				classroom trials	explored the app at
				confirmed	home with parents
				improvements in	as part of family
				understanding.	learning.

^{362 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

6 Enhancing	2021	Winda	Rainbow stone	Researchers used
Cognitive Ability		Widyaningtyas,	natural material	colored natural
in Recognizing		Destita Shari,	media improved	stones and boards
Geometric Shapes		Nanang	shape recognition	shaped into
Through Natural		Rokhman	among 3–4-year-	geometric forms.
Material Media:		Saleh, Berda	olds.	Children arranged
Rainbow Stones		Asmara	Improvements	stones based on
			were observed	shapes and colors
			across multiple	to reinforce
			cycles.	understanding.
7 Enhancing	2023	Yudi Wahyu	Cognitive abilities	The research used
Children's		Widiana, Gina	increased	the Hopkins model
Cognitive Ability		Kania, Sri	significantly	(preliminary
in Recognizing		Sumarti	through geoboard	actions, planning,
Geometric Areas			use—from 15.4% to	observation,
and Numbers			92.3% over two	reflection) to
Through Geoboard			learning cycles.	improve learning
Media				implementation
				across two cycles.

^{363 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

Ceria: Journal of the Childhood Education Study Program, 14(2), pages 356-

372. DOI: http://dx.doi.org/10.31000/ceria.v14i2.13319

8	Improving the	2024	Mutiara Untari,	Children showed	Teachers used
	Ability to		Imam Mujtaba,	improved	block sets to
	Recognize		Anita	recognition of	support learning
	Geometric Shapes		Damayanti	triangle, square,	and play. Children
	Through Block			rectangle, and	built and identified
	Play Activities for			circle shapes	shapes through
	Children Aged 4-5			through block play.	guided
	Years				exploration.
9	Efforts to Improve	2021	Kholishotul	Learning outcomes	Children attached
	Children's		Mu'awalin,	improved through	their geometric
	Cognitive Ability		Avanti	interactive use of	work on boards as
	in Recognizing		Pramudyani,	display boards,	part of visual
	Geometry Through		Jamilatus	including hand-eye	learning. The
	Board Media		Saudah	coordination,	approach helped
				sorting patterns,	link shape
				and naming	recognition with
				shapes.	physical activity.

Ceria: Journal of the Childhood Education Study Program, 14(2), pages 356-

372. DOI: http://dx.doi.org/10.31000/ceria.v14i2.13319

10	Improving Early	2021	Tri Haryati	Geoboard media	Children were
	Childhood		Solihah, Ronny	stimulated	directly involved
	Cognitive Ability		Mugara, Ema	cognitive growth	in making and
	Through		Aprianti	and enhanced	identifying
	Geometric Shape			children's	geometric shapes
	Recognition with			curiosity,	using geoboards,
	Geoboard Media in			motivation, and	which fostered
	Group B			enjoyment in	active engagement
				learning geometry.	and conceptual
					understanding.

Discussion

1. Geometry and Early Childhood Learning

Introducing geometric shapes such as circles, triangles, squares, and rectangles to preschool-aged children is essential in building their early mathematical understanding. As emphasized by Mahmudah & Masykuroh (2023) and Novita et al (2019) and Chusna & Ningrum (2019), this foundational knowledge allows children to recognize and classify real-world objects, thus aiding their environmental awareness and cognitive development. This aligns with Ozcakir, Konca, & Arikan (2019), who note that geometric concepts should be introduced early, as they are part of daily life and a crucial component of children's educational progression.

The reviewed studies further reinforce these assertions. For example, the use of magic board media (Study 1) and block play (Study

^{365 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

8) allowed children to actively manipulate and construct shapes, helping them move beyond passive recognition into deeper conceptual understanding. Likewise, the integration of ethnomathematics (Study 2) connects geometric learning with local cultural contexts, making the experience more meaningful and contextual for children.

According to Indonesian government regulation (Permendikbud No. 137 Tahun 2014), children between 2–3 years should already begin recognizing basic shapes, and at age 4–5, they should engage with concrete mathematical concepts. These developmental expectations align with Piaget's theory of cognitive development, particularly the preoperational stage (ages 2–7), during which children begin to think symbolically and engage with visuals and representations.

2. Cognitive Development of Early Childhood

Cognitive development at this stage is closely tied to exploration, cause-effect understanding, and problem-solving (Permendikbud No. 137/2014). Jean Piaget's cognitive theory divides child development into four stages, with early childhood positioned in the preoperational phase. This stage is characterized by symbolic play and emerging logic, yet still grounded in tangible experiences.

The findings from the ten reviewed studies illustrate that appropriate media can stimulate cognitive development significantly. For instance, rainbow stone natural media (Study 6) and geoboard applications (Studies 7 and 10) provide children with concrete tools for constructing and understanding geometric forms. These studies

^{366 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

observed not only increased shape recognition but also cognitive improvements in problem-solving and abstract reasoning.

In particular, the geoboard-based studies demonstrated progressive gains across learning cycles—from as low as 15.4% to over 90% cognitive achievement—emphasizing the effectiveness of handson, repeated practice. Similarly, the use of visual display boards (Study 9) was shown to support hand-eye coordination, shape identification, and sequencing, reflecting higher-order cognitive processes consistent with Piaget's model.

3. The Role of Learning Media in Geometry Education

Learning media serve as crucial instructional tools that bridge abstract concepts and child-friendly experiences. As suggested by Aisyah Nurhikmah et al. (2023) and Azhar (in Irsan Mestika, 2018), effective media promote engagement, emotional connection, and deeper learning retention. The reviewed studies confirm this assertion through diverse examples:

- ICT-based media (Study 3) enhanced student motivation and improved learning outcomes by using interactive applications for geometry concepts like area and volume.
- GoGeo applications (Study 5) offered playful, multimedia content tailored to preschoolers, supported by home-based learning with parental involvement.
- Conventional media (e.g., LKS, posters) were found to be less engaging unless redesigned into interactive formats (Study 4),

^{367 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

underscoring the importance of innovation in media design.

These studies reveal that learning media are not merely supplementary but are fundamental to ensuring that geometry instruction is aligned with the developmental readiness of young children. When media are designed to be interactive, culturally relevant, and physically engaging, they activate multiple domains—cognitive, motoric, and social-emotional—which are critical in holistic early childhood education.

Conclusion

Based on the findings and discussion, it can be concluded that the use of appropriate and engaging learning media plays a crucial role in enhancing early childhood cognitive development, particularly in recognizing geometric shapes. The ten reviewed studies consistently demonstrate that various media—ranging from natural materials like rainbow stones, interactive technologies like geoboards and educational apps, to culturally contextual tools like ethnomathematics-based media—effectively support children's understanding of geometric concepts.

These learning tools do not only help children identify, name, and classify geometric shapes, but also promote broader cognitive skills such as logical thinking, spatial reasoning, hand-eye coordination, and problem-solving. Aligned with Jean Piaget's theory of cognitive development and national early childhood education standards (Permendikbud No. 137/2014), the findings emphasize that learning

^{368 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

should be concrete, exploratory, and enjoyable for children in the preoperational stage.

Therefore, early childhood educators are encouraged to integrate varied, interactive, and developmentally appropriate media in their teaching practices. By doing so, learning geometry becomes more meaningful and engaging, laying a strong foundation for children's mathematical thinking in future educational stages.

References

- Andriyani, M. (2015). Meningkatkan kemampuan mengenal bentukbentuk geometri datar melalui permainan tradisional gotri legendiri pada anak kelas B TK Sunan kalijogo. (Skripsi Sarjana, Universitas Negeri Yogyakarta)
- Chusna, L. A., & Ningrum, M. A. (2019). Pengembangan Media Dakon Geometri Untuk Meningkatkan Kemampuan Mengenal Bentuk Geometri Anak Usia 4-5 Tahun. *Jurnal PAUD Teratai*, 8(2), 1-6. Retrieved from https://ejournal.unesa.ac.id/index.php/paud-teratai/article/view/29072
- Harini, L., Widiartha, I., & Sanjaya, N. (2016). Peningkatan Kualitas Pembelajaran Geometri dengan Media Pembelajaran Berbasis TIK. Jurnal Udayana Mengabdi, 15(2)
- Hayati, M., & Hikmawati, L. (2021). Pengembangan Media Gogeo dalam Pengenalan Bentuk Geometri Anak. KINDERGARTEN: Journal of Islamic Early Childhood Education, 4(2), 211-221. http://dx.doi.org/10.24014/kjiece.v4i2.12587
- Hrp, T. N., Mesiono., & Lubis, Z. (2018). PENGARUH KEGIATAN BERMAIN KONSTRUKTIF TERHADAP KEMAMPUAN MENGENAL BENTUK GEOMETRI PADA ANAK KELOMPOK B DI RA SABILA AMANDA. JURNAL RAUDHAH, 6(2). http://dx.doi.org/10.30829/raudhah.v6i2.273
- Mahmudah, Z., & Masykuroh, K. (2023). Media Twister Geometri Untuk Meningkatkan Kemampuan Mengenal Bentuk Geometri

^{369 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

Ceria: Journal of the Childhood Education Study Program, **14(2),** pages 356-372. DOI: http://dx.doi.org/10.31000/ceria.v14i2.13319

Anak Usia 4-5 Tahun. *Jurnal Golden Age*, 7(1). Retrieved from https://e-

journal.hamzanwadi.ac.id/index.php/jga/article/view/18791

- Mashuri, S. (2019). *Media Pembelajaran Matematika*. Jakarta: Deepublish. Mu'awalin, K. (2021). Upaya Meningkatkan Kemampuan Kognitif Anak dalam Mengenal Geometri melalui Media Papan Tempel. Prosiding Seminar Nasional Pendidikan Profesi Guru FKIP Universitas Ahmad Dahlan, Vol. 1 No. 1. Retrieved from https://seminar.uad.ac.id/index.php/SemNasPPG/article/view/119
- Mukhlis, N. (2013). Pendidikan dalam upaya memajukan teknologi. Jurnal Kependidikan, 1(1).
- Hapsari, M. N., Ilhami, B. S., & Agustina, Y. (2019). Dekak-Dekak Geometri, Media Pembelajaran Untuk Mengenalkan Bentuk Geometri Pada Anak Kelompok A. *Jurnal Golden Age*, 3(01), 30-36. Retrieved from https://e-journal.hamzanwadi.ac.id/index.php/jga/article/view/1433
- Nurhikmah, A., Madianti, H. P., Azzahra, P. A., & Marini, A. (2023). Pengembangan Media Pembelajaran Melalui Game Educandy Untuk Meningkatkan Karakter Belajar Siswa Di Sekolah Dasar. *Jurnal Pendidikan Dasar Dan Sosial Humaniora*, 2(3), 439-448. https://doi.org/10.53625/jpdsh.v2i3.4472
- Nurrahman, M. N., Meisyaroh, S., Sagala, V. S., & Marini, A. (2022). Keefektifan media pembelajaran dalam bentuk permainan papan pada pembelajaran IPA di sekolah dasar. *Jurnal Pendidikan Dasar Dan Sosial Humaniora*, 2(2), 437-446. https://doi.org/10.53625/jpdsh.v2i2.4346
- Nuryana, A., Pawito., & Utari, P. (2019). Pengantar Metode Penelitian kepada Suatu Pengertian yang mendalam mengenai Konsep Fenomenologi. Jurnal Ensains, 2 (1), 19- 24. Retrieved from https://e-journal.ukri.ac.id/index.php/ensains/article/view/148
- Özçakir, B., Konca, A. S., & Arikan, N. (2019). Children's Geometric Understanding through Digital Activities: The Case of Basic Geometric Shapes. *International Journal of Progressive Education*, 15(3), 108-122. Retrieved from

^{370 |} How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

Ceria: Journal of the Childhood Education Study Program, **14(2),** pages 356-372. DOI: http://dx.doi.org/10.31000/ceria.v14i2.13319

https://eric.ed.gov/?id=EJ1219281

- Peraturan Menteri Pendidikan dan Kebudayaan RI Nomor 137 Tahun. 2014. Kurikulum 2013
- Pendidikan Anak Usia Dini. 2014. Jakarta: Departemen Pendidikan Nasional.
- Permendikbud. (2014). Peraturan Menteri Pendidikan dan Kebudayaan No. 137 Tahun 2014.
- Safitri, A. M., & Apriliani, I. F. (2022). Media Papan Ajaib dalam Pembelajaran Geometri: Studi Literatur untuk Penggunaan di Sekolah Dasar. *PEDADIDAKTIKA: Jurnal Ilmiah Pendidikan Guru Sekolah Dasar*, 9(4), 673-682. https://doi.org/10.17509/pedadidaktika.v9i4.54104
- Sarasehan, Y., Buaraheng, S., & Wahyuni, I. W. (2020). Pengembangan seni rupa tiga dimensi untuk meningkatkan kreativitas anak melalui media playdough. *NANAEKE: Indonesian Journal of Early Childhood Education*, 3(1), 28-36. https://doi.org/10.24252/nananeke.v3i1.13557
- Sari, A. W., Farida, F. G. Putra. (2017). Penggunaan media pembelajaran geometri berbasis etnomatematika. *Jurnal Pendidikan dan Pembelajaran*
- Setiani, R. E. (2013). Memahami pola perkembangan motorik pada anak usia dini. *INSANIA: Jurnal Pemikiran Alternatif Kependidikan*, 18(3).
- Solihah, T. H. (2021). Meningkatkan Kemampuan Kognitif Anak Usia Dini melalui Pengenalan Bentuk Geometri Berbantuan Media Geoboard pada Kelompok B. *JURNAL CERIA (Cerdas Energik Responsif Inovatif Adaptif)*, Vol. 4 No. 4.
- Sopany, M. U., Rahman, T., & Mulyana, E. H. (2022). Analisis Penggunaan Media Pembelajaran Untuk Memfasilitasi Pengenalan Bentuk Geometri Pada Anak Kelompok A Usia 4-5 Tahun Di TK IT_Ar-Rasyiid Kecamatan Karangnunggal. *Jurnal Kewarganegaraan*, 6(2), 3769-3772.
- Supena, A., & Hasanah, U. (2020). Teaching models for children with moderate intellectual disabilities during Covid-19 pandemic. Lentera Pendidikan: Jurnal Ilmu Tarbiyah dan Keguruan, 23(2).
- 371 | How to cite: Novriyanti, I., & Zettira, Z. (2025). Improving Early Childhood Cognitive Skills Through Geometry Pouch Media. *Ceria: Jurnal Program Studi Pendidikan Anak Usia Dini*, 14(2), 356-372. http://dx.doi.org/10.31000/ceria.v14i2.13319

- *Ceria: Journal of the Childhood Education Study Program,* **14(2),** pages 356-372. DOI: http://dx.doi.org/10.31000/ceria.v14i2.13319
- Susanto, A. (2011). Perkembangan Anak Usia Dini: pengantar dalam berbagai aspeknya. Kencana.
- Untari, M. (2024). Upaya Meningkatkan Kemampuan Mengenal Bentuk Geometri melalui Kegiatan Bermain Balok pada Anak Usia 4 – 5 Tahun di TK Lab School FIP UMJ. *Seminar Nasional dan Publikasi Ilmiah FIP UMJ*.
- Veronica, N. (2018). Permainan Edukatif dan Perkembangan Kognitif Anak Usia Dini. 4, 49–55.
- Widiana, Y. W. (2023). Meningkatkan Kemampuan Kognitif Anak dalam Mengenal Bidang Geometri dan Angka melalui Media Geoboard. *Jurnal Tahsinia*, Vol. 4 No. 1.
- Widyaningtyas, W., Shari, D., Saleh, N. R., & Asmara, B. (2021).

 Meningkatkan Kemampuan Kognitif Mengenal Bentuk Geometri

 Melalui Media Bahan Alam Batu Pelangi. *As-Sibyan: Jurnal Pendidikan Anak Usia Dini*, 6(1), 41-52.

 https://doi.org/10.32678/assibyan.v6i1.9932