



MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
IVAN BOBERSKYI LVIV STATE UNIVERSITY OF PHYSICAL CULTURE

FACULTY OF PEDAGOGICAL EDUCATION
DEPARTMENT OF THEORY AND METHODOLOGY OF PHYSICAL EDUCATION
DEPARTMENT OF SPORTS AND RECREATIONAL GAMES



Co-funded by the
European Union

SYLLABUS
of the academic discipline
**“Learning by Moving! Innovative and Interdisciplinary Teaching Methods in
Preschool and Primary Education”**
for the 2026–2027 academic year
Educational Program Component – ELECTIVE

Developed by V. M. Pasichnyk, N. S. Sorokolit, A. B. Mandyuk at Ivan Boberskyi Lviv State University of Physical Culture within the Erasmus+ project

**“Innovative and Interdisciplinary
Teaching Methods in Preschool and
Primary Education”.**

These materials are part of the project
©2025 LERMOV.

All rights reserved. When using the
materials, referencing the author and the
original source is mandatory.

2025, LSUPC



Co-funded by
the European Union



WROCŁAW
UNIVERSITY
OF HEALTH
AND SPORT
SCIENCES



ADAM MICKIEWICZ
UNIVERSITY
POZNAN



ARISTOTLE
UNIVERSITY
OF THESSALONIKI

The Maria Grzegoriewska
UNIVERSITY
established 1922



UNIVERSITY
OF WARSAW





**IVAN BOBERSKYI LVIV STATE UNIVERSITY OF PHYSICAL CULTURE
FACULTY OF PEDAGOGICAL EDUCATION
DEPARTMENT OF THEORY AND METHODS OF PHYSICAL CULTURE
DEPARTMENT OF SPORTS AND RECREATIONAL GAMES**

SYLLABUS

of the academic discipline

“Learning through Movement! Innovative and Interdisciplinary Teaching Methods in Preschool and Primary Education” for the 2026–2027 academic year
component of the educational programme — **ELECTIVE COURSE**

Year and semester of study:	5th year, 2nd semester
Educational programme / specialisation:	“Secondary Education (Physical Education)”
Field of study (specialisation):	A4 “Secondary Education”
Field of knowledge:	A “Education”
Degree:	Master’s degree
Mode of study:	full-time, part-time

Full name of academic staff responsible for the course (academic degree, academic title, position):

- **Sorokolit N. S.**, Doctor of Sciences in Physical Education and Sport, Associate Professor, Professor of the Department of Theory and Methods of Physical Culture
- **Pasichnyk V. M.**, Doctor of Sciences in Physical Education and Sport, Associate Professor, Associate Professor of the Department of Sports and Recreational Games
- **Mandiuk A. B.**, Doctor of Sciences in Physical Education and Sport, Associate Professor, Associate Professor of the Department of Theory and Methods of Physical Culture

Contact phone number	+38067-710-8068
Email address	vikapaska@gmail.com
Class schedule	
Distance learning course page	

COURSE DESCRIPTION

Purpose of studying the academic discipline	The aim of teaching this academic discipline is to familiarise higher education students with the basic concepts and definitions that reveal the essence, features, main trends, and key principles of innovative and interdisciplinary teaching methods in preschool and primary education
Duration	Semester X: 3 ECTS credits / 90 hours (14 hours – lectures, 16 hours – practical classes, 60 hours – independent study)
Forms and Methods of Teaching	Lectures, practical classes, independent work outside the schedule
System of Formative and Summative Assessment	Introductory assessment, ongoing assessment, final assessment. Final assessment – CREDIT
Language of instruction	Ukrainian



Co-funded by
the European Union



ADAM MICKIEWICZ
UNIVERSITY
POZNAN



The Maria Grzegorowska
UNIVERSITY
established 1922



UNIVERSITY
OF WARSAW





THEMATIC PLAN OF THE ACADEMIC DISCIPLINE

No.	Topics	Learning Outcomes
1.	Eduball (developmental balls) and mini-eduball (mini developmental balls) in the formation of mathematical and language competencies of primary school students	Know: the principles of using developmental balls in teaching primary school students; the possibilities of Eduball in developing mathematical and language competencies; types of tasks that combine physical activity and learning activities.
2.	“Learning and Movement,” “Movement for Learning” – innovative methods for primary school children aimed at developing mathematical competence in students with coordination disorders	Know: the features of psychomotor development in children with coordination disorders; methods of sensorimotor integration that influence mathematical skills; the structure and principles of conducting lessons using these methods
3.	Combined methodology “Movement – Coordination – Learning.” The “Smart Ball” approach for developing coordination and stimulating different areas of the brain.	Know: the features of the interconnections between coordination actions, physical activity, and cognitive processes; the neurophysiological foundations of brain activation through movement; exercises and techniques for developing interhemispheric interaction
4.	Combined methodology “Movement Combined methodology “Movement – Coordination – Learning.” Competence-oriented tasks in physical education for preschool and primary school children	Know: the main principles of the competence-based approach in physical education; types of integrated motor and cognitive tasks; principles of designing lessons aimed at developing key competencies
5.	Greek innovative method “Kinetic Theatrical Game” as a means of developing creative and cognitive abilities of primary school children during physical education lessons	Know: the essence and structure of theatrical movement games; the pedagogical potential of theatrical elements in fostering creativity and cognitive skills; the role of emotions, storyline, and imagery in learning through movement
6.	Italian innovative method “Crispiani Method” as a means of comprehensive and harmonious development of primary school children.	Know: the fundamentals of neuropsychomotor development; the corrective and developmental principles of the Crispiani Method; approaches to harmonious cognitive and motor development of primary school students.





THEMATIC PLAN WITH HOURS ALLOCATION

Module Content	Number of hours			
	Total	Lectures	Practical classes	Independent work
Module 1. Innovative Physical Education Methods in Primary Education Institutions in Poland	30	4	6	20
Topic 1.1. Eduball (developmental balls) and mini-eduball (mini developmental balls) in the formation of mathematical and language competencies of preschool and primary school children	16	2	4	10
Topic 1.2. "Learning and Movement," "Movement for Learning" – innovative methods for preschool and primary school children aimed at developing mathematical competence in students with coordination disorders	14	2	2	10
Module 2. Combined Methodology "Movement – Coordination – Learning"	32	6	6	20
Topic 2.1. The "Smart Ball" approach for developing coordination and stimulating different areas of the brain	16	4	2	10
Topic 2.2. Competence-oriented tasks in physical education for preschool and primary school children	16	2	4	10
Module 3. Innovative Physical Education Methods in Primary Education Institutions in Greece and Italy	28	4	4	20
Topic 3.1. Greek innovative method "Kinetic Theatrical Game" as a means of developing creative and cognitive abilities of preschool and primary school children during physical education lessons	14	2	2	10
Topic 3.2. Italian innovative method "Crispiani Method" as a means of comprehensive and harmonious development of preschool and primary school children	14	2	2	10
Total hours:	90	14	16	60

The student should BE ABLE TO:

Eduball / mini-Eduball

- select and combine exercises to develop mathematical and language skills;
- integrate motor and cognitive tasks during the lesson;
- organize a safe and effective educational game-based process.

Co-funded by
the European UnionWROCŁAW
UNIVERSITY
OF HEALTH
AND SPORT
SCIENCESADAM MICKIEWICZ
UNIVERSITY
POZNANARISTOTLE
UNIVERSITY
OF THESSALONIKIThe Maria Grzegorzewska
UNIVERSITY
established 1922UNIVERSITY
OF WARSAW



- appropriate selection of games considering goals, age, and group diversity;
- consideration of organizational and safety conditions;
- planned methods for assessing children's progress;
- justification supported by scientific literature and research.

2. **Conduct a fragment of a lesson** prepared by the student using one of the 7 methods presented during the course, according to the following requirements:

- clear and understandable instructions for "students";
- possibility to modify the game during the lesson;
- appropriate pace, level of difficulty, and participant engagement.

3. **Complete a knowledge test** with a result of at least 60%.

4. **Active participation in classes:**

- participation in discussions;
- engagement in practical exercises.

COURSE LEARNING AND ASSESSMENT POLICY

Assessment Policy: The assessment of students' knowledge is carried out in accordance with:

- Regulations of Lviv State University of Physical Culture named after I. Boberskyi: <http://ldufk.edu.ua/index.php/navchalna-robota.html>
- Course syllabus: <https://repository.ldufk.edu.ua/server/api/core/bitstreams/bf809abb-a5be-482d-81fc-2b5535f6f41/content>

Grading procedure: Points earned from ongoing assessments, independent work, and final assessments are counted. Attendance and active participation in practical classes are mandatory. Assessment is conducted on a 100-point scale. Points are distributed as follows:

- Ongoing assessment – 70 points
- Module control work – 30 points
- Additional points:
 - Attendance at all lectures – 10 points
 - Submission of lecture notes – 10 points
 - Writing research papers, participation in conferences – 10 points each

Academic integrity policy: Cheating and plagiarism are strictly prohibited. Compliance with academic integrity, ethical behavior, and corporate culture is ensured according to the **Regulations on Academic Integrity of Lviv State University of Physical Culture named after I. Boberskyi:** <https://www.ldufk.edu.ua/wp-content/uploads/2023/06/polozhennja-pro-dobrochesnist-04-20.pdf>

Policy on recognition of non-formal learning outcomes: Students who have acquired educational competencies outside Lviv State University of Physical Culture may have their results recognized and credited towards the course if they meet the prerequisites of the educational program, in accordance with the **Regulations on Recognition of Learning**



Co-funded by
the European Union



WROCŁAW
UNIVERSITY
OF HEALTH
AND SPORT
SCIENCES



ADAM MICKIEWICZ
UNIVERSITY
POZNAN



ARISTOTLE
UNIVERSITY
OF THESSALONIKI



The Maria Grzegorzewska
UNIVERSITY
established 1922



UNIVERSITY
OF WARSAW



**Outcomes Obtained through Non-Formal Education:** https://www.ldufk.edu.ua/wp-content/uploads/2023/02/polozhennia_neformalna_osvita.pdf

It is recommended that students enhance their professional knowledge and skills by completing online courses on educational platforms such as:

- [Google Digital Workshop](#)
- [Prometheus](#)

Use of Artificial Intelligence (AI) in the learning process: One of the key advantages of AI in education is its ability to provide a personalized learning experience. Therefore, the course includes the completion of an online course on the application of AI for work and business: https://rsvp.withgoogle.com/events/ai-basics_2023_short/home. The certificate obtained upon completion of the online course can be used to credit 30 points under the non-formal education policy.

“Learning and Movement,” “Movement for Learning”

- adapt movement exercises for children with coordination disorders;
- use movement to develop spatial, rhythmic, and logical skills;
- design individual and group corrective-developmental sessions.

“Movement – Coordination – Learning” (Smart Ball)

- create coordination-cognitive exercises;
- use movement to activate cognitive functions;
- combine ball exercises with learning tasks.

Competence-oriented motor tasks

- develop integrated tasks (motor, cognitive, social);
- design competence-oriented lessons;
- organize group and project activities that develop key competencies.

Kinetic Theatrical Game

- create plots and characters for theatrical movement games;
- develop students' creative and communicative abilities through movement;
- organize role-play, story-based, and emotionally-motor interactions in groups.

Crispiani Method

- select exercises for balance, rhythm, and motor control development;
- apply neuropsychomotor stimulation protocols;
- adapt lessons for children with learning or motor development difficulties.

The student should MASTER:

- skills in integrated learning of “movement + cognition”;
- technologies for developing coordination, attention, memory, and sensorimotor integration;
- techniques for applying innovative methods in physical education lessons;
- methods for organizing differentiated instruction for students with diverse educational needs;
- tools for developing creative, cognitive, and social competencies in primary school students;

Co-funded by
the European UnionWROCŁAW
UNIVERSITY
OF HEALTH
AND SPORT
SCIENCESADAM MICKIEWICZ
UNIVERSITY
POZNANARISTOTLE
UNIVERSITY
OF THESSALONIKIThe Maria Grzegorzewska
UNIVERSITY
established 1922UNIVERSITY
OF WARSAW



- modern pedagogical technologies that combine physical, cognitive, and emotional development.

Teaching Methods and Forms

1. Forms of classes:

- a) Practical classes in small groups;
- b) Micro-teaching (short demonstration lessons conducted by students);
- c) Project work (developing a written lesson plan).

2. Teaching methods:

- a) Short interactive lecture (theoretical introduction and research overview);
- b) Active methods:

- work in groups and pairs;
- role-playing games;
- learning-by-doing method.

Assessment Criteria

To pass the course, each participant must attend at least 80% of classes and:

1. **Prepare a lesson plan** for each of the 7 methods studied in the course (main form of assessment), according to the following requirements:

- clearly defined objectives (knowledge, skills, attitudes);

INFORMATION SOURCES

1. Prystupa, Y. N., Vynogradskyi, B. A., Petryna, R. L., Petryshyn, Y. V., Okopnyi, A. M., & Pasichnyk, V. M. (n.d.). *Methodology for using integral-developmental balls in the intellectual and physical development of children ("Integral-developmental balls")*. Ukraine.

2. Hrynevych, L., Elkin, O., Kalashnikova, S., Kobernik, I., Kovtunets, V., et al. (2016). *Concept of the New Ukrainian School* [Internet]. Retrieved December 10, 2021, from <https://mon.gov.ua/storage/app/media/zagalna%20serednya/nova-ukrainska-shkola-compressed.pdf>

3. Hrynevych, L. (2016). *New Ukrainian School: Conceptual foundations of secondary school reform*. Kyiv, Ukraine.

4. Moskalenko, N. V., Sorokolit, N. S., & Turchyk, I. Kh. (2019). Key competencies in physical education of schoolchildren within the "New Ukrainian School" reform. *Scientific Journal of NPU named after M. P. Drahomanov. Series 15, Scientific and Pedagogical Problems of Physical Culture (Physical Culture and Sport)*, 5(113), 223–228.

5. Onyshchuk, S. O. (2019). Implementation of the New Ukrainian School concept in physical education lessons. *Scientific Journal of NPU named after M. P. Drahomanov. Series 5, Pedagogical Sciences: Realities and Prospects*, 72(2), 83–87. <https://doi.org/10.31392/NPU-nc.series5.2020.72-2.17>

6. Pangelova, N. Ye., & Pyvovar, A. A. (2018). *Integrated development of intellectual and physical abilities of preschool children through movement activities* (Monograph). Pereiaslav-Khmelnytskyi, Ukraine: Dombrovskaya M.

7. Pasichnyk, V., Melnyk, V., & Kudrina, N. (2016). Some aspects of using integrated lessons in preschool physical education practice. *Physical Culture, Sport and Nation's Health*, 141–145.

8. Pasichnyk, V., & Pityn, M. (2025). *Theoretical and methodological foundations of play activities of preschool children in the process of physical education* (Monograph). Lviv, Ukraine: LDUFK named after Ivan Boberskyi.

9. Pasichnyk, V. M., Melnyk, V. O., & Kovalchuk, L. V. (2024). Use of innovative



Co-funded by
the European Union



ADAM MICKIEWICZ
UNIVERSITY
POZNAN

ARISTOTLE
UNIVERSITY
OF THESSALONIKI

The Maria Grzegorowska
UNIVERSITY
established 1922



UNIVERSITY
OF WARSAW





game tools in physical education of preschool children. *Olympicus*, 3, 112–121. <https://doi.org/10.24195/olympicus/2024-3.15>

10. Prystupa, Y., Pasichnyk, V., & Vokanych, A. (2023). Comprehensive development of abilities of senior preschool children using integral-developmental balls. *Scientific Discourse in Physical Education and Sport*, 2, 37–47.

11. Prystupa, Y. N., Petryshyn, Y. V., Vynogradskyi, B. A., et al. (2014). *Didactic games with balls* (Educational manual). Lviv, Ukraine: LDUFK.

12. Sorokolit, N., Rymar, O., & Solovey, A. (2018). Formation of school physical education in Ukraine during the independence period. *Sports Bulletin of Prydniprovia*, 2, 135–139.

13. Sorokolit, N., & Shiyan, O. (2018). *Methodical recommendations on implementing the cross-cutting content line “Civic Responsibility”*: *Physical Education*. Kyiv, Ukraine: Osnova.

14. Sorokolit, N. (2021). Readiness of physical education teachers to implement the main provisions of the New Ukrainian School in physical education. *Sports Bulletin of Prydniprovia*, 2, 137–146. <https://doi.org/10.32540/2071-1515-2021-2-137>

15. Sorokolit, N. (2021). Competence-based approach in physical education. In *Current issues of science and education. The XIV International Science Conference* (pp. 146–152). Rome, Italy.

16. Sorokolit, N. (2021). Opportunities for implementing civic and social competencies in physical education. In Y. B. Zorii (Ed.), *Physical Culture and Sport: Experience and Prospects. Proceedings of the III International Scientific-Practical Conference; April 8–9, 2021* (pp. 129–132). Chernivtsi, Ukraine: Yuriy Fedkovych Chernivtsi National University.

17. Sorokolit, N. (2019). Possibilities for implementing the key competencies of the New Ukrainian School in physical education of schoolchildren. *Sports Bulletin of Prydniprovia*, 3, 186–174. <https://doi.org/10.32540/2071-1476-2019-3-167>

18. Sorokolit, N. (2022). Development of ecological competence of students in physical education lessons. In *Physical Activity and Quality of Human Life. Proceedings of the VI International Scientific-Practical Online Conference; June 23, 2022* (pp. 71–72). Lutsk, Ukraine.

19. Sorokolit, N. S. (2021). *Competence-based approach in physical education: Course syllabus, third level higher education, field of knowledge 01 “Education/Pedagogy,” specialty 014 “Secondary Education (by subject specializations),” specialization 014.11 “Secondary Education (Physical Culture)”* [Internet]. Retrieved from https://repository.ldufk.edu.ua/bitstream/34606048/29767/1/%d0%9d%d0%9f_%d0%9a%d0%9f%d0%a4%d0%92_014_%d0%a1%d0%be%d1%80%d0%be%d0%ba%d0%be%d0%bb%d1%96%d1%82.pdf

20. Sorokolit, N. S. (2022). Methodical techniques for forming students' information and communication competence in the process of physical education. In *Current Issues of Physical Culture, Sport and Ergometry. Proceedings of the III International Scientific-Sport Congress* (pp. 36–38). Chernivtsi, Ukraine: Yuriy Fedkovych Chernivtsi National University.

21. Sorokolit, N. S. (2022). Formation of the key competence “Innovativeness” in schoolchildren through physical education. *Innovative Pedagogy*, 48(2), 91–94. <https://doi.org/10.32843/2663-6085/2022/48.2.17>

22. Sorokolit, N. S. (2022). Ways to implement mathematical and information-communication competencies in school physical education. *Innovative Pedagogy*, 44(3), 54–57. <https://doi.org/10.32843/2663-6085/2022/44/3.11>



Co-funded by
the European Union



WROCŁAW
UNIVERSITY
OF HEALTH
AND SPORT
SCIENCES



ADAM MICKIEWICZ
UNIVERSITY
POZNAN



ARISTOTLE
UNIVERSITY
OF THESSALONIKI



The Maria Grzegorowska
UNIVERSITY
established 1922



UNIVERSITY
OF WARSAW





23. Sorokolit, N. S. (2021). Ways to implement the language competencies of the New Ukrainian School in school physical education. *Scientific Journal of NPU named after M. P. Drahomanov. Series 5, Pedagogical Sciences: Realities and Prospects*, 84(2), 79–93. <https://doi.org/10.31392/NPU-nc.series5.2021.84.2.17>

24. Tarasenko, V. R. (2020). Innovative methods in education as a step towards the European space. In *Innovative Methods in Science, Technology, and Education. Collection of Scientific Works* (Vol. 1, pp. 269–271). Kharkiv, Ukraine. https://univd.edu.ua/general/publishing/konf/14_05_2020_1/pdf/97.pdf

25. Turchyk, I., Sorokolit, N., & Tsypak, B. (2020). Formation of civic and social competencies in students through physical education. *Scientific Journal of NPU named after M. P. Drahomanov. Series 15, Scientific and Pedagogical Problems of Physical Culture (Physical Culture and Sport)*, 1(121), 102–107. [https://doi.org/10.31392/NPU-nc.series15.2019.1\(121\)20.20](https://doi.org/10.31392/NPU-nc.series15.2019.1(121)20.20)

26. Boaler, J. (2016). *Mathematical mindsets: Unleashing students' potential through creative maths, inspiring messages, and innovative teaching*. Jossey-Bass.

27. Bruner, J. S. (1966). *Toward a theory of instruction* (Vol. 59). Harvard University Press.

28. Cichy, I., Kaczmarczyk, M., Wawrzyniak, S., Kruszwicka, A., Przybyla, T., Klichowski, M., & Rokita, A. (2020). Participating in physical classes using Eduball stimulates acquisition of mathematical knowledge and skills by primary school students. *Frontiers in Psychology*, 11, 2194. <https://doi.org/10.3389/fpsyg.2020.02194>

29. Crispiani, P. (2016). *Il Metodo Crispiani 2016. Clinica della dislessia e disprassia*.

30. Crispiani, P., & Palmieri, E. (2015). Improving the fluidity of whole word reading with a dynamic co-ordinated movement approach. *Asia Pacific Journal of Developmental Differences*, 2(2), 158–183.

31. Crispiani, P., & Palmieri, E. (2017). Dyslexia and Champion LIRM: Outcomes of a research study based on treatment of cross patterns. *Asia Pacific Journal of Developmental Differences*, 4(2), 195–211.

32. Crispiani, P., Mountstephen, M., & Palmieri, E. (2019). Early markers of executive functions and their relation to dyslexia: Cross patterns and the level of initial activation. *Asia Pacific Journal of Developmental Differences*, 6(1).

33. Kirsh, D. (2013). Embodied cognition and the magical future of interaction design. *ACM Transactions on Computer-Human Interaction*, 20(1). <https://doi.org/10.1145/2442106.2442109>

34. Kroliczak, G., Buchwald, M., Kleka, P., Klichowski, M., Potok, W., Nowik, A. M., ... & Piper, B. J. (2021). Manual praxis and language-production networks, and their links to handedness. *Cortex*, 140, 110–127.

35. McCann, R. (2016). Physical education + math = Positive results. *Physical & Health Education Journal*, 82(2), 1–5.

36. Nathan, M., & Walkington, C. (2017). Grounded and embodied mathematical cognition: Promoting mathematical insight and proof using action and language. *Cognitive Research: Principles and Implications*, 2(1), 9.

37. Nygren, M., Price, S., & Jha, R. (2023). The role of embodied scaffolding in revealing “enactive potentialities” in intergenerational science exploration. *Science Education*. <https://doi.org/10.1002/sce.21845>

38. Olechowska, A. (2011). Move to Learn Programme in Polish educational practice: Results of pilot studies in 2008–2010 as part of project Methods of Neurodevelopmental



Retardation Therapy of Children in Pre-School and Early School Age. In E. M. Kulesza (Ed.), *Movement, vision, hearing – The basis of learning* (pp. 168–186). Warsaw: Maria Grzegorzewska University.

39. Pasichnyk, V., Khimenes, K., Pityn, M., Bas, O., Hlukhov, I., Hnatchuk, Y., Drobot, K. (2021). Physical condition of preschool children with disabilities in psychological and physical development. *Journal of Physical Education and Sport*, 21(1), 352–359. <https://doi.org/10.7752/jpes.2021.01033>

40. Pasichnyk, V., Melnyk, V., Levkiv, V., & Kovtsun, V. (2015). Effectiveness of integral-developmental balls use in complex development of physical and mental abilities of senior preschool age children. *Journal of Physical Education and Sport*, 15(4), 775–780.

41. Pasichnyk, V., Pityn, M., Melnyk, V., Karatnyk, I., Hakman, A., & Galan, Y. (2018). Prerequisites for the physical development of preschool children for the realization of the tasks of physical education. *Physical Activity Review*, 6, 117–126. <https://doi.org/10.16926/par.2018.06.16>

42. Pasichnyk, V., Pityn, M., Melnyk, V., Semeryak, Z., & Karatnyk, I. (2018). Characteristics of the psychomotor system in preschool children with mental disabilities. *Journal of Physical Education and Sport*, 47, 349–355. <https://doi.org/10.7752/jpes.2018.s147>

43. Rokita, A., Cichy, I., Klichowski, M., Rościszewska, A., Przybyła, T., Wawrzyniak, S., & Bronikowski, M. (2024). From EDUballs to mini-EDUballs and BRAINballs: Innovative learning tools integrating cognition with gross and fine motor skills. University School of Physical Education Press.

44. Rokita, A., & Wawrzyniak, S. (2018). *Learning by playing! 100 games and exercises of brainballs*. University School of Physical Education in Wrocław.

45. Tversky, B. (2019). *Mind in motion: How action shapes thought*. Basic Books.

46. Vygotsky, L. S. (1978). *Mind in society: The development of higher psychological processes*. Cambridge, MA: Harvard University Press.

47. Way, J., & Ginns, P. (2024). Embodied learning in early mathematics education: Translating research into principles to inform teaching. *Education Sciences*, 14(7), 696. <https://doi.org/10.3390/educsci14070696>

48. Wiśniewska, M. (2023). Use of the author's adaptation of the Move to Learn program in working with students with mild and moderate intellectual disabilities in special schools. *Szkoła Specjalna*, 4, 292–305.

49. Żytko, M. (2021). *Education in dialogue*. Wolters.



Co-funded by
the European Union



WROCŁAW
UNIVERSITY
OF HEALTH
AND SPORT
SCIENCES



ADAM MICKIEWICZ
UNIVERSITY
POZNAN



ARISTOTLE
UNIVERSITY
OF THESSALONIKI

The Maria Grzegorzewska
UNIVERSITY
established 1922



UNIVERSITY
OF WARSAW

