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จังหวัดมหาสารคาม 44000

DR.KEN Institute of Academic Development and Promotion
No. 139/26 Theenanon Road, Talad Sub-district,
Mueang Mahasarakham District, Mahasarakham Province,
Thailand, 44000 Tel: +66946398978

Website Address : www.mldskill.com/journal/index.php/IJSASR
: +66946398978
: Dr.keninstitute
: dr.keninstitute@gmail.com,

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Associate Professor Dr. Rattana Panyapa

Associate Professor Dr. Rattana Panyapa is a distinguished academic at Ubon Ratchathani Rajabhat University in Thailand, where she focuses on theology, religious studies, and interdisciplinary social development. With a strong academic background and a Doctor of Theology degree, she contributes extensively to both teaching and research. Dr. Rattana also serves on the editorial boards of respected journals, promoting scholarly collaboration and innovation. His research contributions, which span various aspects of humanities and social sciences.
Expertise: Theology, Religious Studies, Interdisciplinary Research, Sustainable Social Development, Humanities, and Social Sciences.

E-mail : rattana.p@ubru.ac.th

Google Scholar: https://scholar.google.co.th/citations?hl=en&user=ejbxnyYAAAAJ

ORCID ID: https://orcid.org/0000-0001-7801-9340

Editor-In-Chief

Assistant Professor Dr. Sanya Kenaphoom

Assistant Professor Dr. Sanya Kenaphoom is a prominent scholar in public administration at Rajabhat Mahasarakham University, Thailand, and serves as Director of the DR.KEN Institute of Academic Development and Promotion. He holds a Doctor of Public Administration (D.P.A.) and specializes in public policy, governance, sufficiency economy, community development, and strategic planning. Dr. Sanya is the Editor-in-Chief of the Interdisciplinary Academic and Research Journal and plays a key role in promoting interdisciplinary academic research in Thailand. His scholarly contributions, which focus on sustainable development and good governance, are widely recognized.

Zhao Jinyu

Expertise: Public Administration, Public Policy, Governance, Sufficiency Economy Philosophy, Community Development, Strategic Planning, Educatio

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E-mail: sanya.ke@rmu.ac.th

ORCID ID: https://orcid.org/0000-0002-9833-4759

Google Scholar: https://scholar.google.com/citations?user=Ex2SJ-8AAAAJ&hl=th

Editorial Board Members

Assoc. Prof. Dr. Chot Bodeerat

Phibunsongkhram Rajabhat University, Thailand

Associate Professor Dr. Chot Bodeerat is a senior academic at Phibunsongkhram Rajabhat University in Thailand, known for his contributions to the fields of international relations, public administration, and community engagement. His academic work often explores governance, policy implementation, and participatory development, particularly within local and regional contexts. Dr. Chot actively publishes scholarly articles and serves on editorial boards, supporting interdisciplinary research and academic advancement. His research outputs are available via his Google Scholar profile, where his ongoing work reflects a commitment to public service innovation and higher education development.

Expertise: International Relations, Public Administration, Governance, Policy Implementation, Community Participation, and Higher Education Development.

E-mail: chotbodeerat@psru.ac.th

ORCID ID: https://orcid.org/0000-0002-6849-3791

Google Scholar: https://scholar.google.co.th/citations?hl=en&user=-bxQstAAAAAJ

Assoc. Prof. Dr. Ratana Panyapa

Zhao Jinyu

Ubon Ratchathani Rajabhat University, Thailand

Associate Professor Dr. Rattana Panyapa is a distinguished academic at Ubon Ratchathani Rajabhat University in Thailand, where she focuses on theology, religious studies, and interdisciplinary social development. With a strong academic background and a Doctor of Theology degree, she contributes extensively to both teaching and research. Dr. Rattana also serves on the editorial boards of respected journals, promoting scholarly colla

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contributions, which span various aspects of humanities and social sciences.
Expertise: Theology, Religious Studies, Interdisciplinary Research, Sustainable Social Development, Humanities, and Social Sciences.

E-mail: rattana.p@ubru.ac.th

ORCID ID: https://orcid.org/0000-0001-7801-9340

Google Scholar: https://scholar.google.co.th/citations?hl=en&user=ejbxnyYAAAAJ

Asst. Prof. Dr.Sompong Kesanuch

Rajamangala University of Technology Suvarnabhumi, Thailand

Assistant Professor Dr. Sompong Kesanuch is a faculty member at Rajamangala University of Technology Suvarnabhumi, Thailand, with research expertise in educational innovation, democratic development, and community engagement. His work focuses on designing instructional media to foster democratic values among students, promoting civic responsibility, and developing leadership within communities. Dr. Sompong also explores multimedia tools and mixed-method approaches to enhance learning environments and support sustainable university initiatives.

Expertise: Educational Innovation, Instructional Design, Democratic Development, Civic Education, Community Leadership, and Multimedia Learning Tools.

E-mail: sompongek@gmail.com

Google Scholar: https://scholar.google.co.th/citations?hl=th&user=F8Yxl54AAAAJ

Assoc. Prof. Dr. Jitti Kittilertpaisan

Sakon Nakhon Rajabhat University, Thailand

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Associate Professor Dr. Jitti Kittilertpaisan is a senior academic and Vice President for Administration at Sakon Nakhon Rajabhat University, Thailand. He is actively involved in promoting cooperative education, university–community partnerships, and sustainable development initiatives. His research spans public administration, development studies, and policy analysis, with notable works on entrepreneurial intent, agricultural efficiency, and homelessness intervention. Dr. Jitti integrates quantitative research methods with community-based approaches to address real-world challenges.

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Expertise: Public Administration, Development Studies, Policy Analysis, Community Development, Cooperative Education, and Quantitative Research Methods.

E-mail: jitti1998@hotmail.com

ORCID ID: https://orcid.org/0000-0001-6644-4315

Assoc. Prof. Dr. Jirayu Supsin

Faculty of Humanities and Social Sciences, Surin Rajabhat University, Thailand

Associate Professor Dr. Jirayu Supsin is a senior academic in the Faculty of Humanities and Social Sciences at Surin Rajabhat University, Thailand. He specializes in political science and public administration, with a strong focus on community development, local governance, and economic empowerment initiatives. His recent research includes studies on political participation, community leadership mechanisms, and strategies to boost economic opportunities for aging societies in Surin Province, reflecting his commitment to sustainable local development.

Expertise: Political Science, Public Administration, Local Governance, Community Development, Community Enterprise, Economic Empowerment, and Mixed-Methods Research.

E-mail: jhssrru@srru.ac.th

Google Scholar: https://scholar.google.com/citations?user=7lx5EoYAAAAJ&hl=th

Assoc. Prof. Dr. Sirivadee Wiwithkhunakorn

Nakhon Ratchasima Rajabhat University, Thailand

Associate Professor Dr. Sirivadee Wiwithkhunakorn is a decorated academic at Nakhon Ratchasima Rajabhat University (NRRU), Thailand, serving as an Associate Professor in the Department of Public Administration and holding leadership roles as Dean of the Faculty of Humanities and Social Sciences. She has co-authored research on developing professional competencies and human resource practices within Rajabhat universities, employing structural modeling and mixed-method approaches to enhance institutional effectiveness.

Expertise: Public Administration, Public Law, Human Resource Development, Institutional Governance, Competency Modeling, Interdisciplinary Education, and International Academic Collaboration.

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E-mail: sirivadee.w@nrru.ac.th

ORCID ID: https://orcid.org/0000-0002-0842-7709

Assoc. Prof. Dr.Watcharaporn Jantanukul

Ubon Ratchathani Rajabhat University, Thailand

Associate Professor Dr. Watcharaporn Jantanukul is a faculty member at Ubon Ratchathani Rajabhat University in Thailand, specializing in strategic management for local and cultural development, artificial intelligence–enhanced teaching, and community-focused public services. Her recent work includes a 2025 study on "Strategic Management Techniques to Enhance the Sustainable Value-added Local Culture – Local to Global", exploring how local cultures can gain value in the global context. In 2024, she authored a systematic review titled “AI and Human Synergy: Utilizing AI to Enhance Teaching and Learning,” examining how AI integration can support personalized learning while highlighting ethical and equity challenges. Dr. Watcharaporn also investigates public service delivery models to balance efficiency, accountability, and social equity. Her research outputs, reflected in multiple peer-reviewed journals and indexed academic profiles, demonstrate a commitment to enhancing educational quality and community wellbeing through innovative, interdisciplinary approaches.

Expertise: Strategic Management, Local & Cultural Development, AI-Enhanced Education, Public Service Efficiency, Accountability & Equity, and Community Engagement.

E-mail: chomchob49@gmail.com

ORCID ID: https://orcid.org/0000-0001-8048-9798

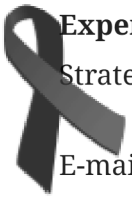
Asst. Prof. Dr. Chuthamas Chompha

Ubon Ratchathani Rajabhat University, Thailand

Assistant Professor Dr. Chuthamas Chompha is a lecturer in the Faculty of Humanities and Social Sciences at Ubon Ratchathani Rajabhat University, Thailand. Her research centers on community development and poverty alleviation through local community enterprises, with notable work on enhancing operational capabilities of community organizations and applying strategic models to address rural poverty in Ubon Ratchathani Province. Her studies incorporate both quantitative and qualitative approaches to develop sustainable frameworks for empowerment, marketing, and organizational management within Thai communities.

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Expertise: Community Development, Poverty Alleviation, Community Enterprise Management, Strategic Planning, Quantitative & Qualitative Research Methods, and Local Empowerment

E-mail: chuthamars.chom@gmail.com

ORCID ID: https://orcid.org/0000-0003-4130-6236

Google Scholar: https://scholar.google.co.th/citations?user=KwiCB1kAAAAJ&hl=th

Asst. Prof. Dr. Pisak Kalyanamitra

Valaya Alongkorn Rajabhat University, Thailand

Assistant Professor Dr. Pisak Kalyanamitra is a faculty member at Valaya Alongkorn Rajabhat University in Pathum Thani, Thailand, with a focus on public administration, governance, and education policy. His research includes topics such as good governance in local administrative organizations, fiscal autonomy, social capital development rooted in the Sufficiency Economy philosophy, and quality assurance in ASEAN universities. Dr. Kalyanamitra employs both quantitative (e.g., causal relationship models, frontier analysis) and qualitative approaches to support sustainable development and organizational effectiveness. His work is documented across multiple journals and indexed in Google Scholar and ResearchGate.

Expertise: Public Administration, Good Governance, Fiscal Autonomy, Social Capital & Sufficiency Economy, Educational Quality Assurance, Quantitative & Qualitative Research Methods.

E-mail: pisak@vru.ac.th

ORCID ID: https://orcid.org/0000-0001-5624-933X

Asst. Prof. Dr. Wanchai Suktam

Surin Rajabhat University, Thailand

Zhao Jinyu

Assistant Professor Dr. Wanchai Suktam is a lecturer and researcher at Surin Rajabhat University, Thailand, with expertise in public administration, political science, community development, and human resource management. His research focuses on participatory development, volunteerism, and local wisdom, aiming to empower communities and promote sustainable livelihoods—particularly among elderly groups in border areas. Dr. Wanchai also explores educational innovation, including the use of blockchain technology for academic credentialing and data

management. His scholarly work reflects a strong commitment to community engagement and policy-driven development.

Expertise: Public Administration, Political Science, Community Development, Human Resource Management, Participatory Research, Volunteerism & Local Wisdom Learning, Educational Innovation, and Technology in Education.

E-mail: wanchai2526@srru.ac.th

ORCID ID: https://orcid.org/0000-0002-0696-1377

Google Scholar: https://scholar.google.com/citations?user=dj-RB6YAAAAJ&hl=th

Asst. Prof. Dr. Kanlayani Charoensopharat

Rajabhat Mahasarakham University, Thailand

Assistant Professor Dr. Kanlayani Charoensopharat is a biotechnology researcher at Rajabhat Mahasarakham University, Thailand, specializing in fermentation engineering, bioethanol production, and microbial biotechnology. Her research focuses on developing thermotolerant yeast strains for efficient bioethanol production from various substrates such as cassava, molasses, and Jerusalem artichoke. She also explores antimicrobial compounds derived from Streptomyces and plant extracts, integrating applied microbiology with sustainable bioprocessing. Dr. Kanlayani holds a Ph.D. in Biotechnology and has published extensively in her field.

Expertise: Biotechnology, Fermentation Engineering, Bioethanol Production, Thermotolerant Yeasts, Antimicrobial Compound Discovery, Electrophoresis, and Cloning.

E-mail: kanlayani@rmu.ac.th

ORCID ID: https://orcid.org/0000-0002-7091-5615

Google Scholar: https://scholar.google.com/citations?hl=th&user=ZSly9c8AAAAJ

Asst. Prof. Dr. Busara Niyomves

Zhao Jinyu

Ramkhamhaeng University, Thailand

Assistant Professor Dr. Busara Niyomves is an academic at Ramkhamhaeng University, Thailand, with expertise in educational management, lifelong learning, and technology-enhanced instruction. Her research focuses on hybrid learning m

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in AI-integrated education, and comparative studies between formal schooling and tutoring institutions. She employs mixed-method research approaches to explore educational outcomes and contribute to policy and innovation in teaching and learning.

Expertise: Educational Management, Hybrid & Technology-Enhanced Learning, Lifelong Learning, Ethical Leadership in AI Education, Comparative Education, and Mixed-Methods Research.

E-mail: busara_09@hotmail.com

ORCID ID: https://orcid.org/0000-0002-3434-9310

Asst. Prof. Dr. Ntapat Worapongpat

Eastern Institute of Technology Suvarnabhumi (EITS), Thailand

Assistant Professor Dr. Ntapat Worapongpat is a faculty member at the Eastern Institute of Technology Suvarnabhumi (EITS), Thailand, and serves as the head of the Center for Knowledge Transfer, Technology, Community Innovation, Entrepreneurship, Tourism, and Education. His expertise lies in innovative educational leadership, community-based digital marketing, and AI-enhanced learning systems. His recent research explores leadership in private university administration, AI mindfulness in graduate education, and strategies for integrating technology to foster community innovation and entrepreneurship.

Expertise: Innovative Educational Leadership, Digital Community Marketing, Organizational Learning, AI-Enhanced Education, Community Innovation, Technology Transfer, and Entrepreneurship.

E-mail: dr.thiwat@gmail.com

ORCID ID: https://orcid.org/0009-0008-3071-5249

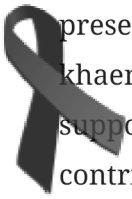
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Dr.Pariyat Namsanga

Rajabhat Maha Sarakham University, Thailand

Zhao Jinyu

Dr. Pariyat Namsanga is a music scholar and educator at Rajabhat Maha Sarakham University in Thailand, specializing in musicology, ethnomusicology, and music education. His work focuses on



preserving and innovating traditional Isan music by blending local styles, such as mōlam and khaen, with Western influences. As an Assistant Dean, he also oversees music infrastructure and supports student development through cultural performances and academic research. His contributions help bridge traditional Thai musical heritage with modern educational practices, enriching both the local community and academic discourse.

Expertise: Musicology, Ethnomusicology, Music Education, Society and Culture

E-mail: pariyat.na@rmu.ac.th

Google Scholar: https://scholar.google.com/citations?user=a22upkoAAAAJ

Dr.Suratsawadee Chantachon

Sirindhorn College of Public Health, Chonburi, Thailand

Dr. Suratsawadee Chantachon is a public health researcher at Sirindhorn College of Public Health, Chonburi, Thailand, specializing in community healthcare innovations with a strong emphasis on herbal health applications for older adults. Her recent work includes developing a prototype *“herbal pain relief belt”* aimed at alleviating knee pain in elderly residents of Bang Nam Priao District, showing significant reductions in discomfort and NSAID usage in quasi-experimental trials. She also co-researches on the adaptive use of traditional Mongolian ger dwellings, examining their health and educational benefits alongside Dr. Songkoon Chantachon. Her ORCID ID is 0009-0005-4173-1728, and her emerging Google Scholar profile indicates a growing publication record focused on practical, health-centered innovation in Thai communities.

Expertise: specializes in community health, elderly care, herbal medicine, health innovation, and traditional Thai health practices.

Mail: suratsawadee@scphc.ac.th

ORCID ID: https://orcid.org/0009-0005-4173-1728

Google Scholar: https://scholar.google.com/citations?user=B4cfQYsAAAAJ&hl=th

Lecturer Sunisa Potisansuk

Rajabhat Mahasarakham University in Thailand

Zhao Jinyu



Lecturer Sunisa Potisansuk is a faculty member at Rajabhat Mahasarakham University in Thailand, where she specializes in teaching dance and drama. Her academic work focuses on the preservation and innovation of Thai folk and religious performances, often combining traditional storytelling, music, and costume with modern choreography. Through her research, she explores cultural themes such as the Holi festival, Isaan legends, and spiritual rituals at shrines, aiming to keep local arts relevant and meaningful in contemporary society. Her publications also contribute to the understanding of community-based crafts and performances, highlighting their role in cultural identity and education.

Expertise: Thai dance and drama, folk and religious performance, cultural preservation, contemporary choreography, and community-based arts.

E-mail: sunisa15122126@gmail.com

Google Scholar: https://scholar.google.com/citations?user=z5CeQhcAAAAJ&hl=th

Dr.Narisara Khamsing

Faculty of Management Science, Rajabhat Maha Sarakham University, Thailand

Dr. Narisara Khamsing is a faculty member at the Faculty of Management Sciences, Rajabhat Maha Sarakham University, Thailand. She specializes in tourism management with a strong focus on community-based and sustainable tourism. Her academic background includes a doctorate in Tourism and Hospitality Management, and she has extensive teaching experience in hotel management, front office operations, and community tourism. Beyond teaching, she frequently serves as a guest speaker on topics such as personality development, front office services, and community tourism development.

Her research contributions span both behavioral studies and applied tourism planning. Key projects include analyzing tourist intentions in faith-based tourism in Maha Sarakham Province, and optimizing family travel routes in Buriram using advanced heuristic models. These works combine social science approaches, such as survey analysis, with technical methods like adaptive algorithms, reflecting her interdisciplinary strength. Her studies not only enhance academic understanding but also provide practical insights for local tourism development, helping communities design sustainable tourism experiences.

Expertise: Community-based and sustainable tourism, hospitality and front office management, homestay and tourism route development, personality development, communication skills, and tourism behavior research.

E-mail: Narisara.kh@rmu.ac.th

Google Scholar: https://scholar.google.com/citations?user=iuCbpykAAAAJ&hl=th

Managing Editors

Krisada Saenbuakham

Research and Development Institute, Rajabhat Maha Sarakham University, Maha Sarakham, Thailand

Zhao Jinyu

E-mail: krisda@rmu.ac.th

Hongyaya Dechphanna

Faculty of Political Science and Public Administration, Rajabhat Maha Sarakham University, Maha Sarakham, Thailand

E-mail: prapatsornsubterm@gmail.com



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Effect of Kinesthetic Learning Strategies on Promoting Chinese Traditional Culture Literacy of Fifth Grade Students

Zhao Jinyu [1], Nitikorn Onyon[2], Suchawadee Somsamran[3],
[1] M.Ed. Student of Curriculum and Instruction program, Valaya Alongkorn Rajabhat University under the Royal Patronage Pathum Thani Province, Thailand
[2,3] Lecturer of Curriculum and Instruction Program, Valaya Alongkorn Rajabhat University, under the Royal Patronage Pathum Thani Province, Thailand
E-mail : jinyuzhao627@gmail.com ORCID ID: https://orcid.org/0009-0009-1206-7257
E-mail: nitikorn@vru.ac.th, ORCID ID: https://orcid.org/0009-0005-5171-3953
E-mail: suchawadee.som@vru.ac.th RCID ID: https://orcid.org/0009-0000-8516-41753

Abstract

Background and aim: In recent years, primary school Chinese language classrooms across the country have exhibited issues such as monotonous teaching methods and low student engagement in traditional culture education. Classical Chinese reading classes are still largely dominated by teacher-centered instruction, emphasizing content explanation rather than active engagement, which may limit students' participation and learning motivation. This study employs a kinesthetic learning strategy teaching model to transform traditional Chinese language education methods, thereby enhancing elementary students' traditional cultural literacy. The purposes of this study were 1) to compare the Chinese traditional culture literacy of primary students before and after learning through kinesthetic learning strategies, 2) to compare the Chinese traditional culture literacy of primary students who learned through kinesthetic learning strategies with the determined criterion of 70 percent, and 3) to compare students' satisfaction after learning through kinesthetic learning strategies with the predetermined criterion of 70 percent.

Materials and methods: In this experimental study, the sample of this study was 40 fifth-grade students (1 classroom) of Tian Xin Primary School in China in the year of study 2025, which was derived by using a cluster random sampling method. This study used the Chinese Traditional Culture Literacy evaluation form to evaluate the students' Chinese Traditional Culture Literacy before and after learning. Data were collected and analyzed by using the arithmetic mean, standard deviation, and paired-samples t-test for one sample.

Results: It was found that the 1) students' Chinese traditional cultural literacy scores after learning through the kinesthetic learning strategies (M=280.64, SD=11.81) were higher than before learning through the kinesthetic learning strategies (M=240.41, SD=12.65) at the .01 level of statistical significance ($t_{39} = 23.35$, $p < .01$). 2) Students' Chinese traditional cultural literacy after learning through the kinesthetic learning strategies was statistically higher than the determined criterion of 70% at the .01 level of statistical significance (M=280.64, SD=11.81, $t_{39} = 14.95$, $p < .01$). 3) Students' satisfaction after learning through kinesthetic learning strategies was greater than the determined criterion of 70% at a .01 statistical significance level. (M = 4.57, S.D. = 0.49, $t_{39}=14.93$, $p< .01$).

Conclusion: The findings demonstrate that kinesthetic learning strategies significantly improve primary school students' Chinese traditional cultural literacy and enhance their learning engagement and satisfaction. The study suggests that incorporating kinesthetic learning approaches into Chinese language instruction may provide an effective pedagogical strategy for promoting traditional culture education in primary schools.

Keywords: Chinese Traditional Culture Literacy, Kinesthetic Learning Strategies, Satisfaction

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Introduction

Culture is a historically accumulated system of values, beliefs, and practices that shapes collective identity and social continuity within a society (Kafadar, 2021). Chinese traditional culture, with a history of more than 5,000 years, represents the spiritual heritage of the Chinese nation and forms an important foundation for national cultural confidence and identity (Ministry of Education of the People's Republic of China [MOE], 2022). In contemporary China, the inheritance of traditional culture has become an important educational priority. National policy documents stress that traditional culture should not only be preserved but also revitalized through creative transformation and innovative educational practices (Central Office of the Communist Party of China & General Office of the State Council, 2017).

Within the compulsory education system, Chinese language education serves as a major channel for transmitting traditional cultural knowledge and values. The *Compulsory Education Chinese Language Curriculum Standards (2022 Edition)* identify Chinese traditional culture as a key thematic component and encourage the integration of cultural inheritance with innovative pedagogical approaches (MOE, 2022). Chinese language classrooms, therefore, carry the dual responsibility of teaching linguistic knowledge while fostering students' cultural literacy, identity, and appreciation of traditional culture.

Despite these policy expectations, traditional culture education in primary Chinese language classrooms continues to face several instructional challenges. Classroom teaching still relies heavily on teacher explanation, textbook interpretation, and memorization of classical texts, which often leads to limited student participation and only superficial understanding of cultural concepts (Huang et al, 2024). Empirical investigations also indicate that many primary school students possess fragmented knowledge of traditional cultural elements such as festivals, calligraphy, and classical poetry, suggesting weaknesses in both instructional effectiveness and learning engagement.

Student engagement and learning satisfaction remain key concerns. Primary school students often approach traditional culture learning through short-term memorization rather than sustained understanding or cultural identification (Luo et al., 2024). The linguistic complexity of classical Chinese texts and the abstract nature of many cultural concepts can create cognitive barriers for young learners (Yao et al., 2022; Ning, 2023). When learning activities are disconnected from students' daily experiences, learners may experience anxiety, reduced motivation, and limited conceptual understanding. From the perspective of educational psychology, insufficient emotional engagement may weaken intrinsic motivation and hinder deep learning and long-term memory formation (Ryan & Deci, 2020).

These difficulties are particularly visible among upper primary school students, such as those in Grade 5, who are undergoing important cognitive and value development. At this stage, students begin to form more complex cultural understanding and identity awareness, yet they still depend heavily on concrete experiences and interactive learning environments. Traditional lecture-based instruction may therefore fail to fully support their developmental characteristics and learning needs (Zheng, 2024). Instructional strategies that provide more experiential and participatory learning opportunities may better meet these developmental demands.

Kinesthetic learning strategies offer one possible approach. Kinesthetic learning emphasizes bodily movement, hands-on activities, and multisensory engagement, drawing on the VAK learning style framework (Fleming & Mills, 1992) and experiential learning theory (Kolb, 2015). Activities such as role-playing, dramatization, cultural simulations, and craft-making can help transform abstract cultural knowledge into concrete learning experiences and strengthen students' emotional connections with cultural content (Bruun & Christiansen, 2016).

Movement-based learning has also been associated with improved memory retention, conceptual understanding, and learning engagement among primary school students (Petrigna et al., 2022). Such approaches are consistent with current curriculum reform efforts that promote student-centered, inquiry-based, and experiential learning environments aimed at cultivating cultural literacy and holistic student development (MOE, 2022). Nevertheless, systematic empirical research on the integration of kinesthetic

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learning strategies into Chinese traditional culture teaching in primary Chinese language classrooms remains limited.

This study, therefore, explores the integration of kinesthetic learning strategies into the teaching of Chinese traditional culture in primary Chinese language classrooms. The study examines whether kinesthetic learning can enhance students' Chinese traditional culture literacy and improve their learning engagement. The findings aim to provide empirical evidence that may inform instructional design and support more effective traditional culture education in primary schools.

Research Question

1) Is there a significant difference in students' Chinese traditional culture literacy before and after learning through kinesthetic learning strategies?

2）Is the students' posttest Chinese traditional culture literacy significantly higher than the predetermined criterion of 70%?

3) Is students' satisfaction with kinesthetic learning strategies significantly higher than the predetermined criterion of 70%?

Research Objective

1) To examine whether there is a significant difference in primary school students' Chinese traditional culture literacy before and after learning through kinesthetic learning strategies.

2) To determine whether primary school students' Chinese traditional culture literacy after learning through kinesthetic learning strategies is significantly higher than the predetermined criterion of 70 percent of the full score.

3) To determine whether students' satisfaction with the kinesthetic learning strategies is significantly higher than the predetermined criterion of 70 percent of the full score.

Research Hypotheses

1) Students' Chinese traditional culture literacy after learning through kinesthetic learning strategies is significantly higher than before learning.

2) Students' Chinese traditional culture literacy after the intervention is significantly higher than the predetermined criterion of 70 percent of the full score.

3) Students' satisfaction with kinesthetic learning strategies is significantly higher than the predetermined criterion of 70 percent of the full score.

Literature Review

Kinesthetic learning strategies

In this study, Kinesthetic learning strategies were synthesized based on reviewing Kolb (2015), Dewey (1933), and Hunter (1982) teaching steps of collaborative learning strategies as follows:

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Table 1: Steps of teaching Kinesthetic learning strategies

Kolb (2015)	**Dewey (1933)**	**Hunter (1982)**	**The result of synthesis**
Step 1: Concrete Experience. The learner fully engages and participates in a novel experience. This may be a hands-on activity, a simulation game, a field trip, or any direct, concrete encounter. This marks the starting point of kinesthetic learning strategies.	Step 1: Suggestion. Within a genuine, uncertain context, learners encounter a perplexity, dilemma, or challenge. The teacher's task is to create situations that provoke authentic problems.	Step 1: Anticipation. Stimulate learners' interest and activate prior knowledge through questioning, displaying objects, or posing a puzzle.	1. Stimulating interest and kinesthetic experience introduction.
Step 2: Reflective Observation. The learner reviews their experience from multiple angles, observing and reflecting on 'What happened?', 'How did it feel?', 'Where did things go wrong?' The teacher guides reflection through questioning.	Step 2: Conceptualisation. Transforming vague, intuitive perplexities into a clear, definable problem requiring resolution.	Step 2: Objectives and Purpose. Clearly communicate what students will learn in the lesson.	2. Knowledge Construction and Kinesthetic Engagement Zhao Jinyu

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Kolb (2015)	**Dewey (1933)**	**Hunter (1982)**	**The result of synthesis**
Step 3: Abstract Conceptualisation. Learners synthesise their observations into logical theories, principles, or models, forming abstract conclusions. They consider: 'What does this signify?' 'What general patterns can be derived?	Step 3: Guiding Hypothesis. Learners formulate one or more conceivable solutions or approaches to the problem through observation and existing knowledge. This equates to developing a testable hypothesis.	Step 3: Input and Modelling. The teacher presents new information, demonstrating skills or thought processes through demonstration and "thinking aloud". This "modelling" itself constitutes a visualised action sequence.	3. Reflection and Consolidation (Reflect / Consolidate)
Step 4: Active Experimentation. Learners apply these newly formed theories in practice, planning subsequent steps and testing their validity in novel contexts. This constitutes a fresh 'concrete experience,' thereby initiating a new cycle.	Step 4: Reasoning. Mentally simulating the potential outcomes of implementing this hypothesis. Step	Step 4: Checking Understanding. This is a critical step. Before allowing independent practice, the teacher verifies students' initial comprehension through multiple methods. One highly effective approach is the 'Whole Body Response Method', such as: 'Please use your body to indicate which angle is acute' or 'Please move to the side of what you believe is the correct answer'. This provides immediate feedback and engagement opportunities for kinesthetic learners.	4. Application and Extension.
	Step 5: Testing through action. This is the crucial action step. Learners verify which hypothesis genuinely resolves the problem through practical actions—conducting experiments, field operations, model	Step 5: Guided Practice and Independent Practice. Students practise new skills under close teacher guidance and feedback. This may include group collaboration, hands-on experiments, or role-play simulations. Students apply acquired knowledge and skills to	5. Assessment and Feedback. Zhao Jinyu

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Kolb (2015)	Dewey (1933)	Hunter (1982)	The result of synthesis
	building, etc. Knowledge is validated and consolidated in the process of 'doing'.	complete tasks autonomously, achieving automaticity.	

Based on the literature review of kinesthetic learning strategies, the results of kinesthetic learning strategies in this study comprise 5 teaching steps as follows:

1. Sparking Interest and Kinesthetic Experience Introduction

Primary Teaching Activities: Creating authentic scenarios, inducing confusion, hands-on experimentation, and simulated operations.

From Kolb: Step 1 "Concrete Experience". From Problem Solving Cycle: Step 1 "Scenario Prompt".

2. Knowledge Construction and Kinesthetic Engagement

Primary Teaching Activities: Teacher demonstration and input; students comprehend knowledge through physical movements and operational practice; Combining collaborative inquiry with physical expression.

From the Active Demonstration Method: Step 3 "Input and Demonstration." From Kolb: Early engagement in Step 2 "Reflective Observation." From the Problem-Solving Cycle: Step 2 "Conceptualization," Step 3 "Guiding Hypothesis."

3. Reflection and Consolidation

Primary Instructional Activities: Verifying understanding through questioning, discussion, and physical feedback actions to form preliminary abstract concepts. From Kolb: Step 2 "Reflective Observation" and Step 3 "Abstract Conceptualization".

From Demonstration Method: Step 4 "Understanding Verification".

4. Application and Extension

Transfer new knowledge to authentic tasks, testing theories, and extending learning through actions, performances, and operations.

From Kolb: Step 4 "Active Experimentation". From the Problem Solving Cycle: Step 4 "Reasoning" and Step 5 "Action Verification". From the Demonstration Method: Step 5 "Guided Practice and Independent Application".

5. Assessment and Feedback

Primary teaching actions: Kinesthetic assessment, peer evaluation, and teacher immediate feedback.

From the Demonstration Method: Step 5 outcome verification. Corresponds to Kolb's cycle closure mechanism.

The aforementioned model integrates Kolb's experiential learning cycle (concrete experience → reflective observation → abstract conceptualization → active experimentation), problem-solving learning steps (contextual cues → problem definition → hypothesis → reasoning → practical verification), and the direct instructional demonstration model (input demonstration → comprehension assessment → independent practice). The integration principle adheres to the core characteristics of kinesthetic learning, establishing a spiral cycle where action experience, reflective understanding, and knowledge transfer are intertwined. This is achieved by consistently centering the learner's "physical engagement in knowledge construction" as the guiding thread.

The kinesthetic learning teaching process adopted in this study comprises five stages: interest stimulation and kinesthetic experience introduction, knowledge construction and kinesthetic participation, reflection and consolidation, application and extension, and assessment and feedback. This process integrates the cyclical logic of experiential learning with the practicality of problem-solving and

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demonstration-based instruction, emphasizing students' knowledge internalization and transfer through physical engagement.

Step 1: Stimulating interest and kinesthetic experience introduction: Enabling students to directly engage with the learning context through physical movements or tangible experiences. Teachers employ classical poetry songs, role-playing with idiom stories, and festive cultural activities to immerse pupils in traditional cultural contexts.

Step 2 Knowledge Construction and Kinesthetic Engagement: Core Concept: Students actively construct knowledge through practice, enhancing understanding via physical movement. Students use physical "modelling" to express artistic conception, performing idiom stories in small groups to memorise plots through movement. They engage in simulated festive activities to learn cultural significance.

Step 3 Reflection and Consolidation (Reflect / Consolidate): Core Concept: Students review their practical experiences, synthesise knowledge, and develop understanding. Have students recount or act out their recent experience, explaining the cultural significance behind the movements verbally. Create illustrated cards combining gestures with accompanying text. Group discussion: Which movements best convey poetic imagery? Why? Deepen understanding through shared insights.

Step 4 Application and Extension: Core Concept: Students apply kinesthetic experiences and knowledge to new contexts, enhancing their ability to transfer learning. Apply and demonstrate acquired knowledge through poetic performances, cultural experiences, and interdisciplinary extensions.

Step 5 Assessment and Feedback: Evaluate learning outcomes through observation, practical exercises, or demonstrations, and promptly adjust teaching accordingly. Assessing movement performances involves observing whether pupils can accurately convey poetic imagery or idiomatic meanings through physical expression. Collect cultural project submissions to evaluate outcomes of festive experiential activities. Employ peer assessment and self-reflection: pupils evaluate each other's movement accuracy and creativity, recording learning reflections. Comprehensive evaluation of learning outcomes is achieved through movement performance, project display, and oral presentation.

Chinese Traditional Culture Literacy

Chinese traditional culture literacy refers to the comprehensive cultural competence that students develop through learning and engaging with traditional Chinese culture in the Chinese language curriculum. It involves students' understanding of traditional cultural knowledge, recognition of cultural values, and the ability to apply cultural understanding in practice. Within the context of Chinese language education, this literacy is gradually formed through exposure to classical texts, cultural practices, and meaningful learning experiences.

According to the Ministry of Education of the People's Republic of China (MOE, 2022), traditional cultural education aims to enable students to acquire knowledge of Chinese culture, understand the spirit of the Chinese nation, and practice the principle of the unity of knowledge and action. Similarly, studies have emphasized that traditional cultural literacy should be cultivated through activities such as the recitation and study of traditional classics, engagement with traditional ethical values, and participation in ritualized and everyday cultural practices. These perspectives suggest that traditional cultural literacy encompasses not only knowledge acquisition but also cultural experience, emotional identification, and value formation.

From a theoretical perspective, cultural literacy has been described as comprising multiple interrelated dimensions, including cognitive understanding, emotional identification, ethical awareness, and value beliefs (Sun, 2013). In addition, Chinese traditional culture education has been shown to promote linguistic competence, cognitive development, aesthetic appreciation, and cultural refinement (Chen & Yang, 2023). These theoretical perspectives indicate that traditional cultural literacy integrates knowledge, cultural identity, emotional engagement, and practical application.

Based on these theoretical foundations and the objectives of Chinese language education, Chinese traditional culture literacy in this study is conceptualized as a multidimensional construct that includes

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students' cultural knowledge, value identification, emotional engagement, behavioural practice, and higher-order thinking related to traditional culture. Accordingly, five components were used to operationalize this construct in the present research.

1. Systematic Knowledge and Cognitive Framework refers to the encompassing mastery of fundamental knowledge, core concepts, and historical context within traditional Chinese culture, which can be evaluated by a test paper.

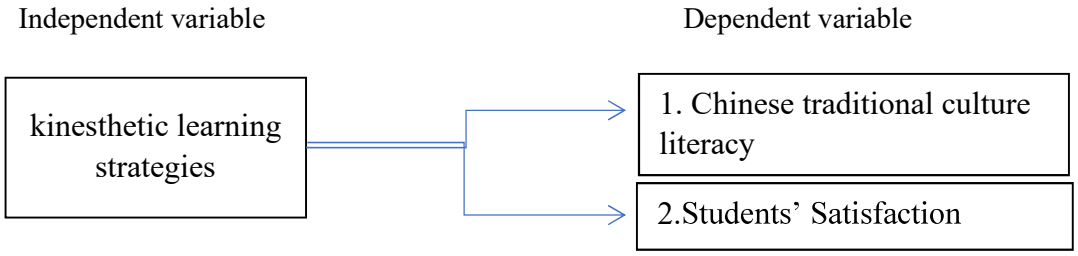
2. Internalized Values and Spiritual Affinity refers to the recognition and internalization of the ideological concepts, ethical norms, and humanistic spirit embedded within traditional culture, thereby fostering robust cultural confidence and values which can be evaluated by Likert's scale.

3. Conscious Behaviour and Practical Competence refers to the externalization of internal knowledge and values through concrete actions, etiquette, and activities, thereby achieving unity of knowledge and practice, which can be evaluated by performance evaluation.

4. Integrated Thinking and Transfer Abilities refers to the capacity to apply traditional cultural wisdom in observing, analyzing, and resolving contemporary issues, which can be evaluated by a scoring rubric.

5. Ongoing Emotional Engagement and Internalization Process refers to its formation as a continuously internalized and evolving process influenced by multiple factors, rather than a static outcome which can be evaluated by Likert's scale.

Conceptual Framework



Methodology

Population and Sample: The population of this study consisted of 400 fifth-grade students from ten classrooms at Tianxin Ethnic School in Yunnan Province, People's Republic of China. To obtain the study sample, cluster random sampling was employed. Each classroom was treated as a natural cluster. Among the ten fifth-grade classrooms, one classroom was randomly selected to participate in the study.

The selected class included 40 students, who constituted the sample for this research. All students in the selected classroom participated in the learning activities and data collection procedures of the study.

Experimental Design:

This study was conducted through a One-Group Pretest–Posttest Design, as shown in the figure below:

Group	Pretest	Treatment	Posttest
Experimental	O1	X	O2

O_1 was a measurement of Chinese traditional cultural literacy before an experiment.

X1 was the implementation of using kinesthetic learning strategies

O_2 was a measurement of the Chinese traditional cultural literacy and students' satisfaction after an experiment

Research Instruments: Research instruments were the tools for researching to collect data. The research instruments that were used in this study were:

1. Instruments for Experiment

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Lesson plans: There were 12 lesson plans allocated with 12 hours of Chinese Traditional Culture Literacy. According to the expert evaluation form, it was found that the mean scores of the appropriateness were at 4.51, and the standard deviation was at 0.51, which means the lesson plans had a quality at a very high level.

2. Instruments for Collecting Data

The research instrument to evaluate Chinese traditional cultural literacy consisted of 5 sections，namely: Systematic Knowledge and Cognitive Framework； Internalized Values and Spiritual Affinity； Conscious Behaviour and Practical Competence； Integrated Thinking and Transfer Abilities； Ongoing Emotional Engagement and Internalization Process.

2.1 Systematic Knowledge and Cognitive Framework Test was found that the Index of Item–Objective Congruence (IOC) of each item ranged from 0.67 to 1, which means the test had content validity. The difficulty of the test items ranged from 0.42 to 0.57, the discrimination index ranged from 0.52 to 0.65, and the KR20 was 0.84. proving that the test items are usable.

2.2 Internalized Values and Spiritual Affinity Scales were found to have an Index of Item–Objective Congruence (IOC) of each item, which ranged from 0.67 to 1.00, which means the scales had validity. The Cronbach's Alpha value of the Internalized Values and Spiritual Affinity observation checklist was 0.83, indicating that the scales are reliable.

2.3 Conscious Behaviour and Practical Competence Performance Evaluation was found that the Index of Item–Objective Congruence (IOC) of each item ranged from 0.70 to 1.00, which means the evaluation form had validity. The Cronbach's Alpha value of the Conscious Behaviour and Practical Competence was 0.86, indicating that the evaluation form is reliable.

2.4 Integrated Thinking and Transfer Abilities Scoring Rubric was found that the Index of Item–Objective Congruence (IOC) of each item ranged from 0.60 to 1.00, which means the scoring rubric had validity. The Cronbach's Alpha value of the Integrated Thinking and Transfer Abilities checklist was 0.80, indicating that the scoring rebric are reliable.

2.5 Ongoing Emotional Engagement and Internalization Process Scales were found to have an Index of Item–Objective Congruence (IOC) of each item ranging from 0.67 to 1.00, which means the scales had validity. The Cronbach's Alpha value of the Ongoing Emotional Engagement and Internalization Process checklist was 0.83, indicating that the scales are reliable.

2.2 Questionnaire for students' satisfaction toward Kinesthetic Learning Strategy.

The instrument used to measure students' satisfaction with kinesthetic learning strategies was a 20-item student satisfaction questionnaire. Three educational experts evaluated the consistency between each questionnaire item and its operational definition. All 20 items obtained an Item–Objective Congruence (IOC) value of 1.00, indicating that the experts agreed that the items were clearly aligned with the intended constructs.

Students' responses to the questionnaire were measured using a five-point Likert scale. The mean scores of the questionnaire items ranged from 4.47 to 4.72, indicating a high level of student satisfaction with the kinesthetic learning activities.

The reliability of the questionnaire was examined using Cronbach's alpha coefficient. The analysis produced a Cronbach's alpha value of 0.82, which indicates acceptable internal consistency of the instrument.

Data Collection: Data collection on the Chinese traditional culture literacy under the instruction of Kinesthetic Learning Strategies was as follows:

1) The sample was given the pretest by the Chinese traditional culture literacy.

2) The sample was taught by using kinesthetic learning strategies in a Chinese traditional culture course with 12 lesson plans and 12 total hours.

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3) After finishing the instruction, the samples received the posttest by using the same instrument that was used in the pretest.

4) The sample was given the students' satisfaction questionnaire.

Data Analysis: In this study, the quantitative data were analyzed using the statistical program according to the research objectives.

1) Compare the students' Chinese traditional culture literacy before and after receiving collaborative learning by using a t-test for dependent samples.

2) Compare the students' Chinese traditional culture literacy with the determined criteria set at 70 percent by using a t-test for one sample.

3) Compare the students' satisfaction with collaborative learning by using the arithmetic mean and standard deviation.

Results

According to the research objectives, the results were as follows:

1. Result of comparing the students' Chinese traditional culture literacy before and after learning through the Kinesthetic Learning Strategies by using the t-test for dependent sample analysis.

Table 1: The comparison of the pre-test and post-test scores for overall Chinese traditional culture literacy and its five components (n=40)

Components	Full scores	Pretest scores		Posttest scores		*t*	*p*	Effect size
		M	*SD*	*M*	*SD*			
Systematic Knowledge and Cognitive Framework	90	60.45	7.80	74.08	6.40	12.49 **	.001	1.91
Internalized Values and Spiritual Affinity	50	28.00	2.93	38.33	3.24	20.37**	.001	3.34
Ongoing Emotional Engagement and Internalization Process	100	69.43	7.40	75.00	7.74	5.74**	.001	0.74
Conscious Behaviour and Practical Competence	100	69.15	5.43	75.25	4.78	7.57**	.001	1.19
Integrated Thinking and Transfer Abilities	21	13.38	2.57	17.98	1.25	13.73**	.001	2.28
Overall, Chinese traditional culture literacy	361	240.41	12.65	280.64	11.81	23.35**	.001	3.29

* * p< 0.01.

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As shown in the paired-samples Table 1, tests were conducted to examine the effects of kinesthetic learning strategies on primary school students' Chinese traditional culture literacy. The results indicated that students' post-test scores (M=280.64, SD=11.81) were significantly higher than their pretest scores

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(M=240.41, SD=12.65) at the .01 level (t39=23.35, p<.01) with an effect size of d = 3.29, classified as a very large effect. In addition, when considering each dimension, the following was found:

Students' systematic knowledge and cognitive framework posttest scores (M=74.08, SD=6.40) were significantly higher than their pretest scores (M=60.45, SD=7.80) at the .01 level (t39=12.49, p<.01) with an effect size of d = 1.91, classified as a very large effect.

Students' internalized values and spiritual affinity posttest scores (M=38.33, SD=3.24) were significantly higher than their pretest scores (M=28.00, SD=2.93) at the .01 level (t39=20.37, p<.01) with an effect size of d = 3.34, classified as a very large effect.

Students' ongoing emotional engagement and internalization process posttest scores (M=75.00, SD=7.74) were significantly higher than their pretest scores (M=69.43, SD=7.40) at the .01 level (t39=5.74, p<.01) with an effect size of d = 0.74, classified as a very large effect.

Students' conscious behaviour and practical competence posttest scores (M=75.25, SD=4.78) were significantly higher than their pretest scores (M=69.15, SD=5.43) at the .01 level (t39=7.57, p<.01) with an effect size of d = 1.19, classified as a very large effect.

Students' Integrated Thinking and Transfer Abilities posttest scores (M=17.98, SD=1.25) were significantly higher than their pretest scores (M=13.38, SD=2.57) at the .01 level (t39=13.73, p<.01) with an effect size of d = 2.28, classified as a very large effect.

2. The result of comparing the mean score of Chinese Traditional Culture literacy of students after collaborative learning strategies with the determined criterion set at 70 percent of full scores.

Table 2: The result of the average score of Chinese Traditional Culture Literacy after Kinesthetic Learning Strategies, with the determined criterion set at 70 percent of full scores. (Full score = 361)

Group	n	Criterion score	M	SD	t	p
Experimental group	40	252.7	280.64	11.81	14.95**	.001

** p < 0.01

To compare students' Chinese Traditional Culture Literacy with the determined criterion of 70 percent of the full score, a one-sample t-test was conducted using the post-test total scores. As presented in Table 2, the results indicated that students' Chinese Traditional Culture Literacy after learning through kinesthetic learning strategies was significantly higher than the 70 percent criterion at the .01 level of statistical significance (t39 = 14.95, p < .01). This finding suggests that students' Chinese Traditional Culture Literacy not only met but substantially exceeded the expected performance standard.

3. Result of assessing the students' satisfaction after learning through the Kinesthetic Learning Strategies by using the arithmetic mean and standard deviation analysis.

Table 3: The results of the students' satisfaction after learning through the Kinesthetic Learning Strategies (n= 40)

Dimension of students' satisfaction	Mean	SD	Levels of Satisfaction
1) Satisfaction with Content	4.53	0.50	Very high
2) Satisfaction with the Kinesthetic Learning Strategy	4.63	0.48	Very high
3) Satisfaction with learning activities	4.59	0.49	Very high

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Dimension of students' satisfaction	Mean	SD	Levels of Satisfaction
4) Satisfaction toward learning atmosphere	4.61	0.49	Very high
5) Satisfaction with learning materials	4.62	0.49	Very high
6) Satisfaction with measurement and evaluation	4.57	0.49	Very high
Overall satisfaction of students	**4.59**	**0.49**	Very high

From the results of mean scores and standard deviation analysis in Table 4, it could be seen that the mean scores of students' satisfaction were at a very high level across all aspects. The highest mean score was found in students' satisfaction toward the Kinesthetic Learning Strategy (M = 4.63, SD = 0.48), followed by satisfaction toward the learning materials (M = 4.62, SD = 0.49), the learning atmosphere (M = 4.61, SD = 0.49), and the learning activities (M = 4.59, SD = 0.49). In addition, the students' satisfaction with the measurement and evaluation was at a high level (M = 4.57, SD = 0.49), while the lowest mean score, though still very high, was observed in satisfaction with the course content (M = 4.53, SD = 0.50). The overall students' satisfaction mean scores after learning through the Kinesthetic Learning Strategies were 4.59 with SD=0.49. These results indicate that students demonstrated a very high level of satisfaction with the Kinesthetic Learning Strategies implemented in the Chinese Traditional Culture course.

Table 4 The comparing the mean score of students' satisfaction after learning through Kinesthetic Learning Strategies with the determined criterion set at 70 percent (Full scores = 5)

Varible	Full score	Criterion score	*M*	*SD*	*t*	*p*
Students' satisfaction	5	3.51	4.57	0.50	14.93	.001

** $p < 0.01$

To compare students' satisfaction after the implementation of kinesthetic learning strategies with the determined criterion of 70 percent, a one-sample t-test was conducted using the overall satisfaction scores. The criterion score was set at 3.51, representing 70 percent of the total possible score.

As presented in Table 4, the results showed that the mean scores of students satisfaction was 4.57 (SD = 0.50), which was significantly higher than the determined criterion at the .01 level of statistical significance ($t = 14.93$, $p < .01$). This finding indicates that students demonstrated a high level of satisfaction toward the kinesthetic learning strategies implemented in the classroom.

Conclusion

In summary, through analysing the arithmetic mean, standard deviation, paired-samples t-test, and single samples t-test of traditional Chinese cultural literacy among Year 5 pupils at Tianxin Ethnic School before and after implementing kinesthetic learning strategies, Figures 1 and 2 reveal a significant post-intervention improvement in pupils' traditional Chinese cultural literacy. Moreover, pupils' satisfaction with the kinesthetic learning strategy reached its highest level. Consequently, the application of kinesthetic learning strategies within primary Chinese language traditional cultural literacy courses is feasible, thereby contributing to the enhancement of traditional Chinese cultural literacy among Year 5 pupils at Tianxin Ethnic School.

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Discussion

Discussion of research objectives 1 and 2: The findings of this study indicate that the implementation of kinesthetic learning strategies significantly improved primary school students' Chinese traditional culture literacy. The results showed that students' post-test scores (M=280.64, SD=11.81) were significantly higher than their pre-test scores (M=240.41, SD=12.65) at the .01 level, with a statistically significant difference at the .01 level (t39=23.35, p<.01). This result suggests that kinesthetic learning strategies can effectively enhance students' understanding of traditional Chinese cultural knowledge and related cultural meanings.

The improvement may be explained by the active and experiential characteristics of kinesthetic learning. Unlike traditional teacher-centered instruction, kinesthetic learning encourages students to participate physically in the learning process through movement-based activities, collaborative tasks, and experiential exploration. Such learning experiences allow abstract cultural knowledge, particularly the pictographic origins and symbolic meanings of Chinese characters, to be transformed into concrete and meaningful learning experiences. As a result, students are able to construct stronger connections between linguistic forms, cultural meanings, and personal learning experiences.

Furthermore, the significant increase in students' post-test scores beyond the predetermined criterion of 70 percent also indicates that the instructional design effectively supported students in achieving the expected learning outcomes. The findings suggest that integrating kinesthetic learning activities into Chinese language instruction can provide students with richer opportunities to interact with cultural content, thereby strengthening both cultural understanding and learning engagement.

Overall, the results demonstrate that kinesthetic learning strategies provide an effective instructional approach for promoting Chinese traditional culture literacy in primary school Chinese language classrooms. By combining physical participation with cultural learning tasks, such strategies can enhance students' comprehension of cultural knowledge while also improving their motivation and engagement in the learning process.

Discussion of research objective 3: The results of this study indicated that students' satisfaction significantly improved through the implementation of kinesthetic learning strategies. The overall students' satisfaction after learning through the kinesthetic learning strategies was at a very high level (M = 4.59, S.D. = 0.49), suggesting that students demonstrated highly positive attitudes toward the Chinese Traditional Culture course. Most students reported that kinesthetic activities made the learning of Chinese character origins more interesting, engaging, and meaningful. Through bodily movement, action-based exploration, and group interaction, students were able to better understand the meanings and cultural connotations of Chinese characters, which enhanced their emotional engagement and overall learning experience.

The high level of satisfaction can be largely attributed to the diversified and action-based learning activities embedded in the kinesthetic learning approach. Unlike traditional character instruction that relies heavily on explanation and rote memorization, kinesthetic learning incorporates bodily enactment of pictographic meanings, movement-based character performance, and creative group tasks. These concrete physical experiences enabled students to actively construct knowledge rather than passively receive information, aligning with principles of embodied and experiential learning. In addition, timely and multi-source feedback from teachers and peers helped students recognize their progress, strengthened their sense of competence, and sustained positive learning emotions throughout the instructional process.

Furthermore, kinesthetic learning fostered a supportive and low-anxiety classroom climate through increased social interaction and cooperative participation. Group-based activities encouraged communication, shared responsibility, and collective success, which enhanced students' motivation, self-efficacy, and emotional investment in learning. Repeated successful experiences in understanding and expressing Chinese characters through bodily participation further reinforced students' confidence and satisfaction. Overall, the findings suggest that kinesthetic learning not only improves students' understanding of Chinese character origins and traditional cultural meanings but also creates an emotionally

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engaging learning environment that promotes motivation, self-efficacy, and holistic development in primary Chinese language education.

Recommendation

1) **Recommendation for Implication:** Based on the findings of this study, several pedagogical implications are proposed to enhance the effective implementation of kinesthetic learning in primary school Chinese language classrooms, particularly for the teaching of Chinese character origins and traditional cultural literacy.

First, kinesthetic learning should be systematically integrated into the Chinese language curriculum rather than applied sporadically. Structured and continuous use of bodily enactment, role-play, and movement-based cultural activities can strengthen students' cognitive connections with Chinese characters and traditional cultural meanings, thereby enhancing traditional cultural literacy and learning satisfaction.

Second, kinesthetic activities should be closely aligned with clear instructional objectives and curriculum standards. Physical participation in classroom tasks should directly support character recognition, semantic understanding, and cultural interpretation, ensuring that kinesthetic engagement promotes meaningful cognitive learning rather than merely recreational participation.

Third, teachers should provide continuous instructional scaffolding and formative assessment during kinesthetic learning activities. Through observation checklists, performance rubrics, guided reflection, and timely feedback, teachers can help students connect bodily experience with linguistic knowledge and cultural understanding, facilitating deeper internalization of traditional cultural values.

Finally, attention should be given to classroom management and inclusive participation. Well-structured procedures, appropriate time allocation, and differentiated kinesthetic tasks can maintain learning efficiency while accommodating individual differences, thereby promoting sustained engagement and holistic development in primary school Chinese language classrooms.

2) Recommendations for Future Research

Based on the findings of this study, several directions for future research are proposed to further develop the application of kinesthetic learning in Chinese traditional culture education.

First, future research should examine how kinesthetic learning can be systematically integrated into different areas of the Chinese language curriculum beyond Chinese character learning. In the present study, kinesthetic activities were primarily designed around the pictographic origins and cultural meanings of Chinese characters, which proved effective in enhancing students' cultural understanding. However, it remains unclear how such embodied learning strategies could be adapted for other components of Chinese traditional culture education, such as classical poetry, traditional etiquette, or festival culture. Further studies could therefore explore how kinesthetic learning can be designed to support different types of cultural content.

Second, future studies should investigate the practical challenges teachers face when implementing kinesthetic learning in traditional Chinese culture instruction. During classroom practice, issues such as limited instructional time, classroom management during movement-based activities, and teachers' familiarity with kinesthetic instructional design may influence the effectiveness of such strategies. Research focusing on teachers' instructional experiences and pedagogical adaptations would provide valuable insights for improving the feasibility and sustainability of kinesthetic learning in real classroom settings.

Third, future research could further examine how different types of kinesthetic activities influence students' cultural understanding and engagement. The present study demonstrated an overall improvement in students' traditional cultural literacy; however, it remains unclear which specific types of kinesthetic tasks contribute most strongly to learning outcomes. Identifying the most effective activity designs would help refine instructional strategies for Chinese traditional culture education.

Finally, future research may explore how kinesthetic learning supports the transfer of cultural understanding into students' daily cultural practices. Traditional culture education aims not only to improve students'

knowledge but also to promote cultural identity and behavioural expression. Longitudinal studies could therefore investigate whether students continue to demonstrate cultural under

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Acceptance Letter for Publication

To **Zhao Jinyu, Nitikorn Onyon, Suchawadee Somsamran**

Following the submission of your manuscript entitled **"Effect of Kinesthetic Learning Strategies on Promoting Chinese Traditional Culture Literacy of Fifth Grade Students"** to the *Interdisciplinary Academic and Research Journal (Online)*, Old ISSN: 2774-0374 (Online) and New ISSN: 2985-2749 (Online), we are pleased to inform you of the outcome of the editorial and peer-review process.

The *Interdisciplinary Academic and Research Journal (IARJ)* is indexed by the **Thailand Citation Index (TCI Tier 2)** and is a member of **Crossref (DOI)**. In addition, articles published in the journal are retrievable through recognized international academic databases and library systems, including **Google Scholar, Semantic Scholar, Scilit, Harvard Library, and OUCI (Open Ukrainian Citation Index)**.

Your manuscript has undergone a rigorous peer-review process and was evaluated by three expert reviewers in the relevant field from various external institutions, all of whom are independent and have no affiliation with the author's organization. Based on the reviewers' evaluations and recommendations, the Editorial Board is pleased to confirm that your article has been **accepted for publication** in the *Interdisciplinary Academic and Research Journal*.

The article is scheduled for publication in **Volume 6, Issue 6 (November-December 2026)**. The publication status and progress of the article can be followed online at: https://so03.tci-thaijo.org/index.php/IARJ/about

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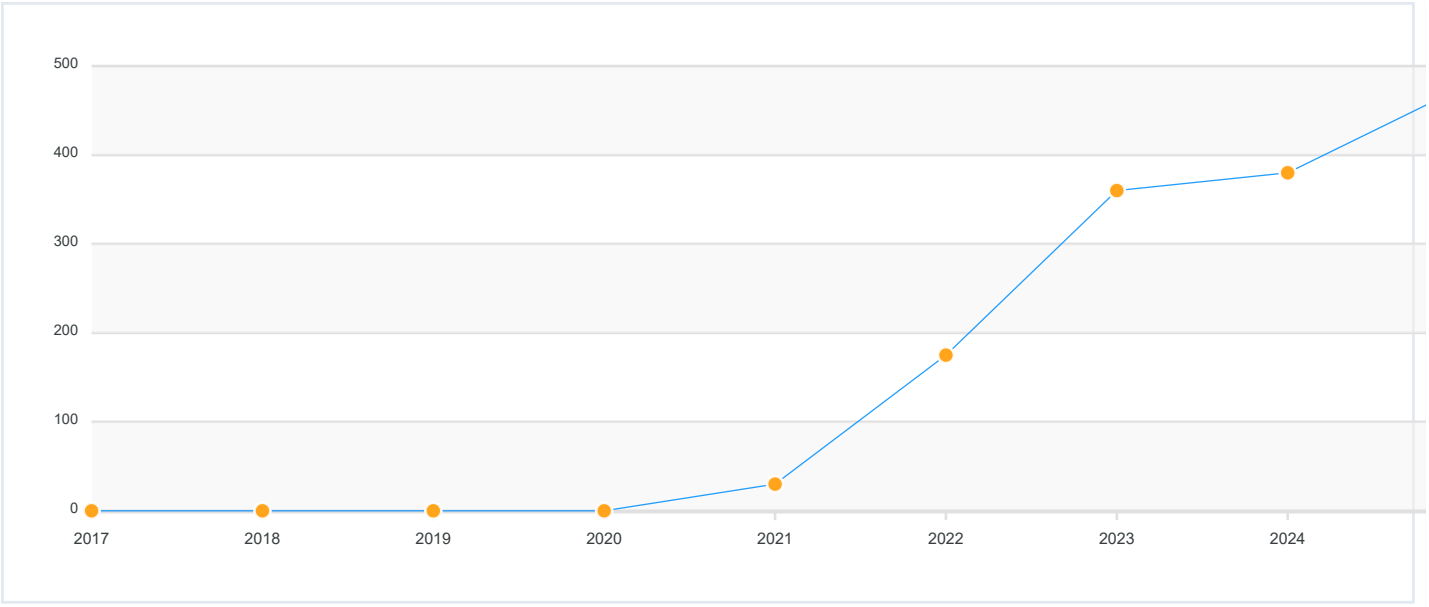
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