

Chapter 2

Theoretical Foundations of Collaborative Language Learning



Abstract This chapter reviews the main theoretical orientations in collaborative learning research and discusses the main metaphors on learning from the perspective of learning sciences. Based on this, it elucidates the necessity of shifting from the cognitive perspective to the sociocultural perspective on investigating collaborative second-language learning. All this provide theoretical foundations for analyzing learning taking place in networked second-language learning.

2.1 Social Theories of Learning

Three main theoretical orientations in collaborative learning research are acknowledged to be particularly influential on contemporary computer-supported collaborative learning research (Dillenbourg et al. 1996). They are socio-constructivist theories that extend Piaget's program of cognitive development (Doise and Mugny 1984), Soviet sociocultural theories of learning and development (Vygotsky 1978), and the theory of situated learning (Lave and Wenger 1991). Researchers make a three-pronged distinction among them based on their differences of focus in orientation, methodology, and data.

Influenced by these social theories, working within CSCL certainly acknowledges the importance of the larger social, historical, and cultural context. However, at the earlier stage, it often treats this context as a set of environmental variables that may influence the outcomes of individual student cognition, but are separable from that cognition (Stahl 2011). In this way, cognition is still treated as a function of an individual mind, though social influences are acknowledged (Stahl 2011). This approach is named socio-constructivist (or socio-cognitive) approach.

Dillenbourg et al. (1996) summarize the differences between the socio-constructivist approach built upon the theory of Piaget and the sociocultural approach based on the sociocultural theory of Vygotsky and his colleagues. According to their interpretation, the socio-constructivist approach focuses on individual development in the context of social interaction, as well as the role of interactions with others rather than the actions themselves, while the sociocultural approach focuses on the causal relationship between social interaction and individual cognitive change.

Chapter 2 Exploring Collaborative Learning Theoretical

Bridget Looney



Chapter 2 Exploring Collaborative Learning Theoretical:

Investigating Chinese HE EFL Classrooms Lin Lin,2014-11-03 This book presents a study on corpus driven distribution as the main method of prediction concentrating on individual semantic features to predict the senses of non defined words by using corpora and tools such as the Chinese Gigaword Corpus HowNet Chinese Wordnet and XianDai HanYu CiDian Xian Han With the help of these corpora the study determines the collocation clusters of four target words chi1 eat wan2 play huan4 change and shao1 burn through character and concept similarities The results of this sense prediction study demonstrate that it was able to use off line tasks to test some participants intuition which supports the theory that different clusters can represent different senses when pursuing a corpus based computational approach

Maker Pedagogy Bridget Looney,2025-08-18 Maker pedagogy s focus on democratic participation equity and empowerment extends to school leadership where it calls upon teachers students and those in formal school leadership roles to examine and develop school policies and practices together *Beyond the Stars: The Unsung Heroes Who Powered the Space Race* David Patterson,2025-12-30 The Space Race captured the world s imagination but behind the astronauts were countless unrecognized minds who made liftoff possible Beyond the Stars shines light on the engineers programmers mathematicians and visionaries men and women alike whose brilliance and grit turned Cold War dreams into cosmic reality From hidden laboratories to mission control rooms this book reveals the personal sacrifices political struggles and scientific breakthroughs that defined a generation Through compelling storytelling and historical insight it uncovers how collaboration courage and quiet genius built humanity s path to the stars reminding us that true exploration begins on Earth with those willing to challenge the impossible

Designing Curricula for Learner Autonomy and Engagement Angelos Bollas,Cathryn Bennett,2026-01-01 Designing Curricula for Learner Autonomy and Engagement examines how higher education can be reimagined to empower learners as active self regulated participants in their own development Across seven interconnected chapters the book integrates theory research and practice to explore how autonomy and engagement can be systematically fostered in curriculum design teaching strategies and institutional policy Starting with the conceptual foundations of learner autonomy and self regulated learning the book situates these ideas within the realities of contemporary higher education including digital transformation flexible delivery and post pandemic pedagogical change It repositions notional hours as a learner centred design tool and illustrates their application through a case study of an undergraduate module redesigned to enhance engagement and independent learning Building on these principles the book offers evidence based frameworks for blended and interactive learning design showing how Constructive Alignment Self Determination Theory and Universal Design for Learning can be translated into practical strategies for fostering motivation reflection and meaningful interaction Subsequent chapters address the measurement and enhancement of student engagement introducing ethical inclusive and data informed approaches to assessing behavioural emotional and cognitive

participation The discussion extends to institutional and policy levels exploring how quality assurance systems curriculum governance and professional development can support autonomy oriented innovation Throughout the book emphasises the integration of technological and human dimensions of learning including the emerging influence of generative AI and advocates for pedagogy that is both evidence based and responsive to learners diverse needs Bridging conceptual insight with actionable guidance Designing Curricula for Learner Autonomy and Engagement provides educators curriculum designers and policymakers with a coherent framework for creating learning environments that cultivate agency criticality and sustained engagement in an evolving educational landscape Teacher Inquiries in Literacy Teaching-Learning Christine C. Pappas,Liliana Barro Zecker,Liliana Zecker,2001 A collection of urban elementary teacher researchers year long inquiries around literacy topics show how they attempted to transform their teaching practices to meet the needs of students from diverse ethnic linguistic backgrounds Exploring Professional Knowledge and Practices Collaboratively in Problem-based Discussions Wen-Yu Lee,2004 **Space, Education, and Inclusion** Georg Rißler,Andreas Köpfer,Tobias Buchner,2023-12-01 This timely edited volume brings together interdisciplinary perspectives on space and spatiality in inclusive education discourses With research from an international range of scholars the book explores the intersections boundaries and intermediary spaces of inclusion and exclusion within educational contexts It advances thinking in inclusive education research and links discourses of the spatial turn in inclusive education with a call for thinking spatially Instead of defining one spatial approach as the overarching framework for analysis it considers the potential of combining spatial approaches from diverse disciplines including social sciences educational science and geography The book systematically identifies and links the relations between a diversity of spatial theoretical perspectives and phenomena of inclusion exclusion This volume provides invaluable transdisciplinary readings and reflections on space and spatiality in inclusive education and will be highly relevant for academics researchers and postgraduate students in the fields of inclusive education educational theory and the sociology of education The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

Exploring a Second Language Student's Literacy Learning Opportunities Cynthia H. Brock,1997 **AI-Mediated Language Education in the Metaverse Era** Yu-Ju Lan,Grace Yue Qi,Dorothy Chun,2025-10-13 This book provides open discussions and dialogues around the latest research and development on applying AI and ubiquitous technologies into various language learning contexts Living in the Metaverse era arguably a turning point in the evolution of the Internet it is vital for researchers and practitioners to rethink and reconsider human and AI relationships in transforming the way we teach learn and live in everyday life Reinders et al 2022 amongst Computer Assisted Language Learning CALL researchers have emphasised the need to conduct more research on language learning in the classroom and beyond that makes real connections with what language learners do for their learning today More importantly language educators must find ways to

support language learning in this new era What is urgently needed is a consolidation and synthesis of theoretical foundations visions and the latest research findings and practices on the integration of AI and ubiquitous technologies and language education from diverse perspectives This book comprising of contributions regarding contextualised AI mediated language learning and teaching provides researchers practitioners and teacher educators with an opportunity to closely engage in research informed practices and intellectual dialogues on potential opportunities and challenges in the Metaverse era It also helps to facilitate the development of equitable sustainable and just practices for the diversity of language learners today

A Cultural Historical Approach to Social Displacement and University-Community Engagement: Emerging Research and Opportunities Underwood, Charles, Mahmood, Mara Welsh, Vásquez, Olga, 2021-05-07 In a time of worldwide turmoil and pervasive social displacement universities and communities have come together to meet these urgent challenges in order to support the academic and social development of displaced young people from diverse cultural and linguistic backgrounds It is crucial to understand and review how institutions as well as individuals and collaborative groups have worked together to expand institutional culture and practice in a process of cross institutional expansive learning A Cultural Historical Approach to Social Displacement and University Community Engagement Emerging Research and Opportunities focuses on university community collaborative engagement as a strategic response to widespread social displacement and its implications for the educational and social development of underserved young people from displaced communities Using a cultural historical perspective the book offers a comparative study of collaborative engagement in multiple programs involving university and community partners in long term efforts to address the social displacement and educational development of local young people Specifically it examines University Community Links UC Links an international network of partnerships between universities and communities that has been addressing the educational implications of social displacement for over 20 years This book is ideal for school faculty students university administrators local community leaders community based organization leaders local political leaders teachers and school partners as well as researchers practitioners and stakeholders interested in discourse on university community engagement in higher education K 12 and local and state decision making arenas

Creativity and Collaborative Learning Jacqueline S. Thousand, Richard A. Villa, Ann Nevin, 1994 When the barriers created by traditional instruction are removed all students are capable of helping each other to learn and grow regardless of their background or cognitive ability With this practical resource instructors will learn how to capitalize on students individual differences and promote the academic and social growth of every learner in the inclusive classroom A wealth of research based teaching strategies sample lesson plans illustrative case studies and hands on instructional materials are provided to help educators meet their students varying educational and psychological needs Throughout this book internationally recognized education experts detail the powerful strategies made possible by cooperative collaborative learning and provide practical guidelines for adapting curricula and instructional methods

developing peer mediated teaching systems organizing peer mediation programs facilitating friendships and peer connections and enhancing creative thinking among students and colleagues This fundamental reference will help educators administrators and classroom support personnel provide each student in the inclusive classroom with a quality education and the experience they need to build successful careers communities friendships and families

Teachers' Professional Learning Communities in China Jia Zhang,2022-05-06 The book investigates how Chinese professional learning communities PLCs shape the professional practice of teachers and their psychological well being Adopting a mixed research approach the author explores the influence of PLCs on teachers self efficacy commitment and job satisfaction in a number of schools in Shanghai China The study contributes to our understanding of PLC outcomes from the Chinese perspective enriches our knowledge of how PLCs promote teachers psychological well being and also sheds light on how the practices of PLCs can be influenced by various institutional and socio cultural forces The book will be of interest to academics and students studying professional learning communities teacher professional learning and professional development school effectiveness and school improvement and Chinese schooling

Collaborative-apprenticeship Learning Ann Shea Bayer,1990

An Exploration of Openness to Learning and the Development of a Measurement Instrument Nicholie Ann Ashcraft,1990

The Critical Writing Workshop Toni-Lee Capossela,1993

Teaching Content Reading and Writing Martha Rapp Ruddell,2004-01-27 With the passage of the No Child Left Behind Act and Increasing pressures on teachers to produce results true literacy is no longer optional all the more so in a technological world where adolescent literacy has become increasingly diverse and complex In this new edition of Teaching Content Reading and Writing Martha Rapp Ruddell provides you with the evidence based theories and practices you need to rise to the demand of today s schools and to make decisions about the most effective ways to teach today s learners Updated and revised in light of the evolving realities of adolescent lives and literacies Teaching Content Reading and Writing Fifth Edition offers a wealth of ready to implement ideas and features to help you achieve success in your classroom including Up to date discussions of adolescent literacies including digital literacies such as iPods pod casts IM and blogs Suggestions for content area instruction that supports the needs of all learners Centerpiece Lesson Plans that show you how to apply and adapt instructional strategies for specific content area lessons How To Do feature step by step instructions you can use to plan lessons Creating Strategic Readers Writers and Learners specific suggestions for helping your students take charge of their own learning and become confident learners Online Video Vignettes of real teachers teaching real students let you see how the strategies play out in the classroom Opening chapter classroom scenarios Double Entry Journal prompts end of chapter What This Chapter Means to You and other guides to connect what you learn to your own experience and classroom Book jacket

Transforming Learning Sue Askew,Eileen Carnell,1998 This book promotes a new and radical model of learning in school which the authors call personal and social learning While traditional approaches to learning and teaching stress cognitive aspects of

development and learning their approach to learning synthesises the cognitive affective and social dimensions They reveal personal and social learning as being part of the whole school experience and the effective learning of all in the school community The book espouses the nature of learning within this radical model and highlights key social values such as equality respect and justice *Exploring the Language and Literacy Development of "native Bilingual Speakers"* Sara Christina Michael-Luna,2005 *Engaging Communication, Transforming Organizations* Jennifer Lyn Simpson,Pamela Shockley-Zalabak,2005 An important classroom addition at both the senior seminar and graduate level in organizational communication this book takes seriously the role of theory in engaging practice Jacket **Collaborative Learning** Kenneth A. Bruffee,1999-01-13 Advocates a far reaching change in the relations between college and university professors and their students between the learned and the learning

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web jan 26 2016 the solubility product or ksp is a way of showing how effective a chemical is at dissolving into an aqueous solution the higher the ksp the more the chemical will dissolve into that solvent for this lab calcium hydroxide is created then ionized Ca(OH)_2 when calcium is put in water reacts as follows $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$

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web k sp of calcium hydroxide 1 author j m mccormick last update october 13 2013 introduction an equilibrium constant K is related to ΔG for a process through eqn 1 and as long as ΔH and ΔS are independent of temperature eqn 1 can be combined with eqn 2 to determine ΔH and ΔS from the temperature dependence of K

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web your primary objective in this experiment is to test a saturated solution of calcium hydroxide and use your observations and measurements to calculate the ksp of the compound you will do this by titrating the prepared Ca(OH)_2 solution with a standard hydrochloric acid solution

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web in today's experiment you will determine the solubility product ksp of calcium hydroxide Ca(OH)_2 by measuring the concentration of Ca(OH)_2 in a saturated solution calcium hydroxide is a sparingly soluble salt that dissolves according to the following reaction the solubility product expression for this reaction is

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web expert verified chem 182 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous solution of Ca(OH)_2 is represented in equation form as shown below $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$ the solubility product expression describes in mathematical terms the equilibrium

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web ksp for calcium hydroxide calcium hydroxide is a soft white caustic powder used in making mortar cements calcium salts paints and petrochemicals it is also used in saltwater aquaria to make up kalkwasser limewater solutions for reef tanks and is used as a ph regulating agent notice that calcium hydroxide is divalent and thus has twice

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web use the concentration of calcium hydroxide to calculate the concentration of calcium ions and hydroxide ions in the

solution Ca(OH)_2 à Ca^{2+} 5×10^{-2} m calcium ions 5×10^{-2} m 2OH^- m hydroxide ions calculate calcium hydroxide ksp using the concentrations of calcium ions and hydroxide ions

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web madison bowe elana keller april 15 2014 introduction the objective of this lab was to measure the ksp of a slightly soluble basic salt and how solubility changes with temperature ksp is another form of equilibrium expression that deals with solubility the reaction that will take place is $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2 \text{OH}^-$

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chemistry 1210 lab 11 experiment 11 determining the ksp of calcium - Sep 08 2023

web the chemical equation used was $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2 \text{OH}^-$ the solubility product was determined to be ksp $\text{Ca}^{2+} \text{OH}^-$ from the titration which was made by dripping a concentrated solution of calcium hydroxide into hydrochloric acid the calcium hydroxide was filtered before starting the titration

18.1 solubility product constant ksp chemistry libretxts - Feb 01 2023

web jul 12 2023 because the concentration of a pure solid such as Ca_3PO_4 is a constant it does not appear explicitly in the equilibrium constant expression the equilibrium constant expression for the dissolution of calcium phosphate is therefore $K = [\text{Ca}^{2+}]^3 [\text{PO}_4^{3-}]^2$

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web therefore it was determined through error calculations and ease of use that the most reliable valid method to use to get the closest ksp value to the theoretical ksp for ca was the determination through ph method 2 introduction calcium hydroxide is a strong base soluble in water

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web we will filter the solid calcium hydroxide from the solution and then titrate the dissolved calcium hydroxide in solution with a known concentration of hydrochloric acid using titrimetric calculations we will determine the Ca^{2+} and OH^{-} concentrations in solution

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web calculate the ksp for calcium hydroxide $K_{sp} Ca^{2+} OH^{-} = 2.0 \times 10^{-2}$ $K_{sp} = 5 \times 10^{-4}$ find the accepted value of the ksp for calcium hydroxide and compare it with your value discuss the discrepancy and suggest possible sources of experimental error accepted value for ksp for sodium hydroxide is 5×10^{-6}

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