

1. Record Nr.	UNISALENTO991001021769707536
Autore	Batschelet, Edward
Titolo	Introduction to mathematics for life scientists / Edward Batschelet
Pubbl/distr/stampa	New York : Springer-Verlag, 1976
ISBN	0387073507
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Descrizione fisica	xv, 643 p. : ill. ; 23 cm
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Disciplina	510.24574
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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2. Record Nr.	UNINA9910252694903321
Autore	Schilhab Theresa
Titolo	Derived Embodiment in Abstract Language // by Theresa Schilhab
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-56056-5
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XI, 242 p. 4 illus.)
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Soggetti	Semiotics Education—Philosophy Developmental psychology Evolution (Biology) Educational Philosophy Developmental Psychology Evolutionary Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- 1. Introduction to the book -- 2. Interactional expertise -- 3. Grounded cognition -- 4. Concrete and 'abstract' knowledge -- 5. Derived embodiment and interactional expertise -- 6. Mental applications -- 7. Educational implications -- 8. Issues to consider -- References.
Sommario/riassunto	How does knowledge of phenomena and events we have no direct experiences of emerge? Having a brain that learns from being in the world, how can we conceive of prehistoric dinosaurs, Atlantis, unicorns or even 'desire'? This book is about how abstract knowledge becomes anchored in direct experiences through well-formed conversations. Within the framework of evolutionary biology and through the lens of contemporary studies in cognitive science, the neurosciences, sociology and anthropology, this book traces topics such as our inborn sensitivity to the environment, bottom-up and top-down processes in knowledge formation and the importance of language when we learn to categorise the world. A major objective of this monograph is to identify the key determinants of the specific interactivity mechanisms that control the

cognitive processes while we are linguistically immersed. The emphasis is on real-life interactions in conversations. While the concrete word-object paradigm depends relatively more on direct experiences, the successful acquisition of abstract knowledge depends on the emphatic skills of the interlocutor. He or she must remain sensitive to the level and quality of the imagination of the child while making mental tableaux that are believed to elicit images to which the child associates the concept. Derived embodiment in abstract thought is a landmark synthesis that operationalizes contemporary neuroscience studies of acquisition of knowledge in the real life conversational context. The result is an exciting biology-based contribution to theories of knowledge acquisition and thinking in sociology, cognitive robotics, anthropology and not at least, pedagogy. .

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