

## CHAPTER FIVE

### Ape knapping then and now: Limited social learning of sharp stone-tool making and use in naïve non-human apes

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#### Abstract

Ape knapping experiments complement human knapping experiments as a source of behavioral data to build hypotheses about the learning mechanisms underlying the acquisition of knapping skills in extinct hominins. In addition, ape knapping experiments provide information regarding the stone-related behaviors that could have preceded the systematic production and use of sharp stones in our lineage. In this chapter, we review previous ape knapping experiments with a focus on those that tested apes' abilities to socially learn from human demonstrators. Two studies, investigating one orangutan and one bonobo, concluded that both apes could socially learn sharp stone tool-making and use from human demonstrations. These results were interpreted as evidence of the reliance of early hominins on social learning to acquire knapping skills. However, alternative explanations exist. We provide novel data from two experiments investigating the abilities of the two previously untested great ape species (chimpanzees and gorillas) to learn knapping from human demonstrations. Contrary to the previous studies, the chimpanzees and gorillas in our experiments did not acquire sharp stone tool-making or use socially from human demonstrations. However, the apes we tested frequently manipulated the testing materials and two chimpanzees engaged in two events of lithic percussion involving an active hammer (although these actions did not lead to flake detachment). Our results suggest that the observation of human demonstrations is insufficient for the tested apes to acquire knapping abilities. This disparity in results between studies is unlikely to be explained by species differences in tool-use proficiency but rather by the particular rearing background of the previously tested individuals. We discuss how our previous results on both the individual and social learning abilities of unencul-

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## Apes Chapter Two Sengage Learning

**Gila Hanna, Laura Macchi, Karin  
Binder, Laura Martignon, Katharina  
Loibl**

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**Psychology and Mathematics Education** Gila Hanna, Laura Macchi, Karin Binder, Laura Martignon, Katharina Loibl, 2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems. Thus it is par excellence a model of rational inquiry. Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades. Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century. Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference. Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats. Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather sacrifice even when solving problem. This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education. We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program. In Simon's bounded rationality and its direct descendant ecological rationality, rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e.g. transitivity.

**Psychology of Language** Shelia M. Kennison, 2018-10-18 This accessibly written and pedagogically rich text delivers the most comprehensive examination of its subject carefully drawing on the most up to date research and covering a breadth of the central topics including communication, language acquisition, language processing, language disorders, speech, writing and development. This book also examines an array of other progressive areas in the field neglected in similar works such as bilingualism, sign language as well as comparative communication. Based on her globally orientated research and academic expertise author Shelia Kennison innovatively applies psycholinguistics to real world examples through analysing the heterogeneous traits of a wide variety of languages. With its engaging, easy to understand prose this text guides students gently and sequentially through an introduction to the subject.

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