

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

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Binder, Laura Martignon, Katharina
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 Chapter 3 The New World Order Part 2 The Ape Society Chapter 4 Culture and Civilization Chapter 5 The Language of Apes
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Table of Contents Apes Chapter Two Sengage Learning

1. Understanding the eBook Apes Chapter Two Sengage Learning
 - The Rise of Digital Reading Apes Chapter Two Sengage Learning
 - Advantages of eBooks Over Traditional Books
2. Identifying Apes Chapter Two Sengage Learning
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Apes Chapter Two Sengage Learning
 - User-Friendly Interface
4. Exploring eBook Recommendations from Apes Chapter Two Sengage Learning
 - Personalized Recommendations
 - Apes Chapter Two Sengage Learning User Reviews and Ratings
 - Apes Chapter Two Sengage Learning and Bestseller Lists
5. Accessing Apes Chapter Two Sengage Learning Free and Paid eBooks
 - Apes Chapter Two Sengage Learning Public Domain eBooks
 - Apes Chapter Two Sengage Learning eBook Subscription Services
 - Apes Chapter Two Sengage Learning Budget-Friendly Options

6. Navigating Apes Chapter Two Sengage Learning eBook Formats
 - ePub, PDF, MOBI, and More
 - Apes Chapter Two Sengage Learning Compatibility with Devices
 - Apes Chapter Two Sengage Learning Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Apes Chapter Two Sengage Learning
 - Highlighting and Note-Taking Apes Chapter Two Sengage Learning
 - Interactive Elements Apes Chapter Two Sengage Learning
8. Staying Engaged with Apes Chapter Two Sengage Learning
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Apes Chapter Two Sengage Learning
9. Balancing eBooks and Physical Books Apes Chapter Two Sengage Learning
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Apes Chapter Two Sengage Learning
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Apes Chapter Two Sengage Learning
 - Setting Reading Goals Apes Chapter Two Sengage Learning
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Apes Chapter Two Sengage Learning
 - Fact-Checking eBook Content of Apes Chapter Two Sengage Learning
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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