

Fig. 1. Study items in Experiment 1.

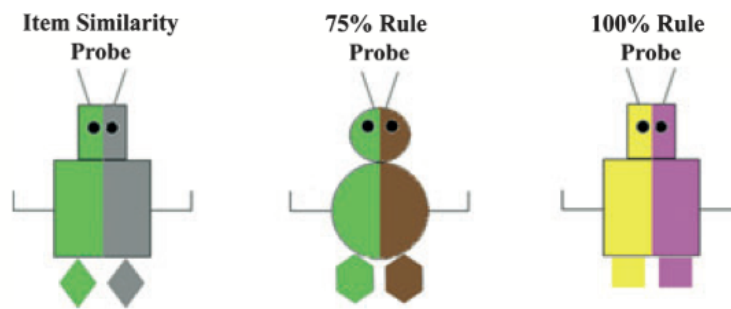


Fig. 2. Examples of three types of test items from Experiment 1.

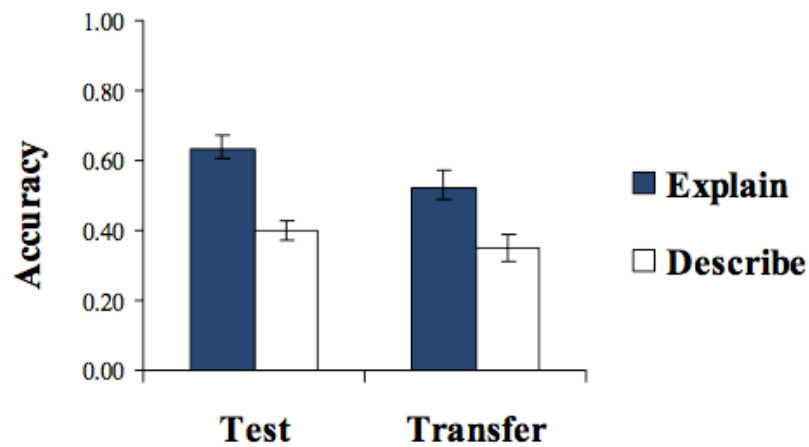


Fig. 3. Categorization accuracy on test and transfer items in Experiment 1.

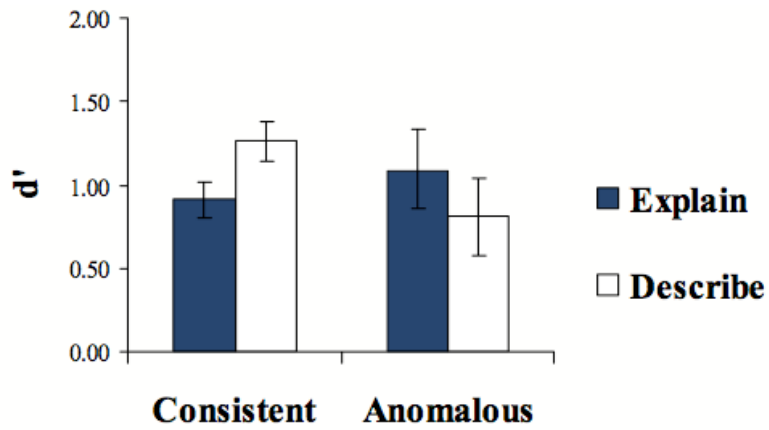


Fig. 4. Memory for consistent and anomalous items in Experiment 1.

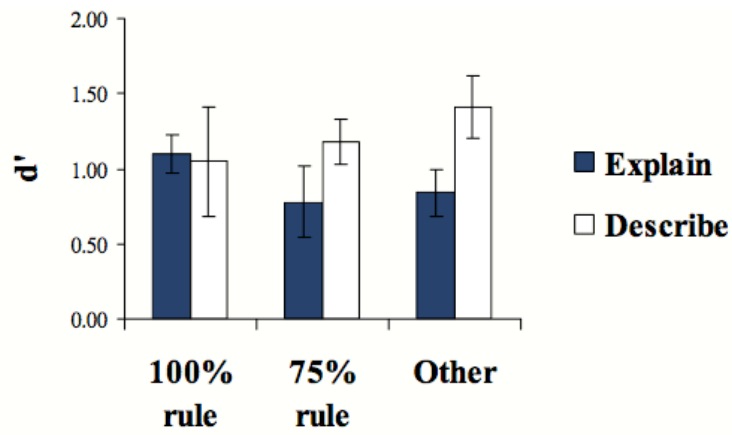


Fig. 5. Memory for consistent items as a function of basis for categorization in Experiment 1.

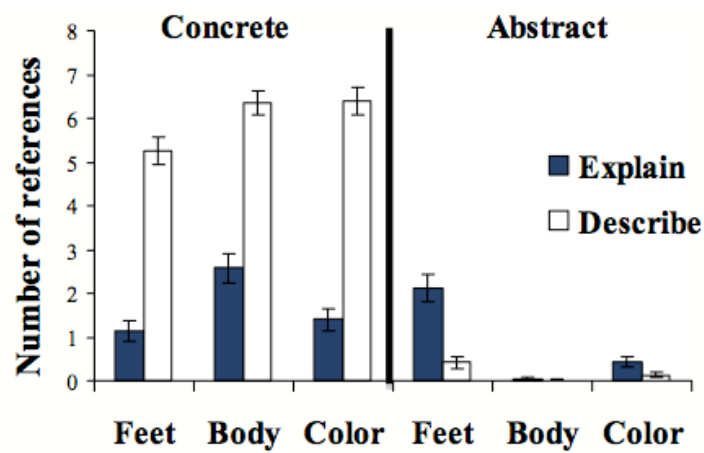


Fig. 6. Coding of feature references in explanations and descriptions in Experiment 1.

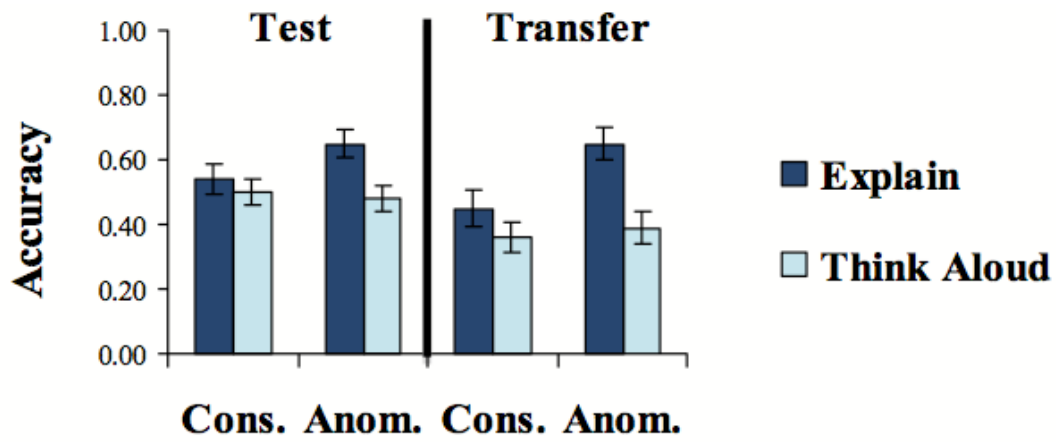


Fig. 7. Categorization accuracy in Experiment 2.

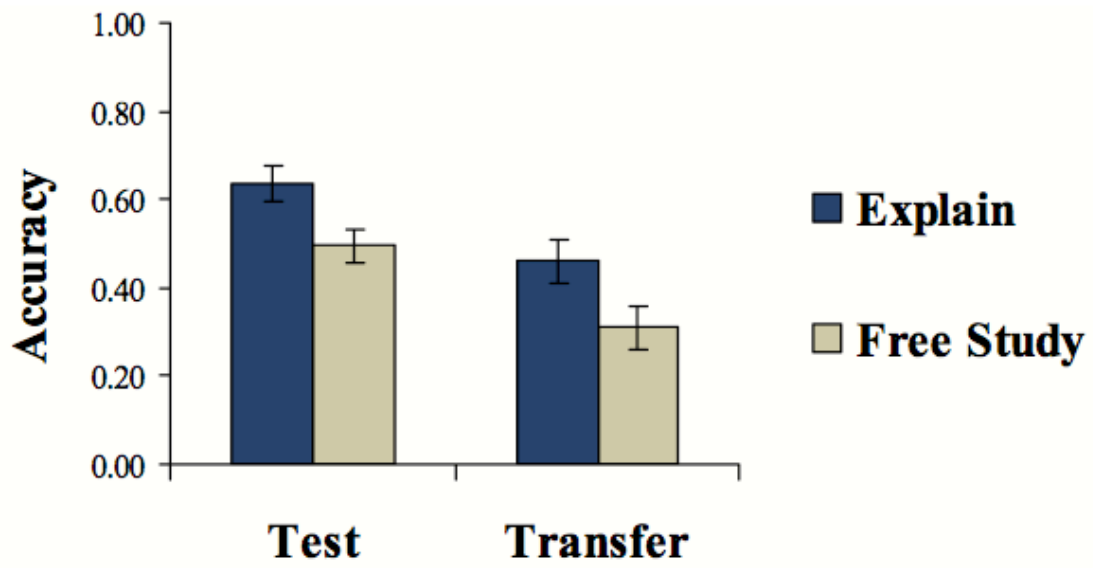


Fig. 8. Categorization accuracy in Experiment 3.

Table 1
Overview of experiments: key differences

	Introduction	Study Phase	Control Condition
Exp. 1	Informed about two categories	8 items × 50 s (accompanied by image of all 8)	Describe
Exp. 2	Informed about two categories, and memory and categorization tests; exposure to 3 repeated blocks of all 8 items	2 items × 90 s (accompanied by image of all 8); 2 items: consistent vs. anomalous	Think aloud
Exp. 3	Informed about two categories, and memory and categorization tests	Image of all 8 for 120 s	Free study

Table 2
Number of participants in Experiment 1 coded as providing each basis for categorization on the basis of explicit reports

	100% Rule—Foot	75% Rule—Body	Item Similarity	Other
Explain	26	14	0	35
Describe	6	40	0	29

Table 3
Number of participants in Experiment 2 coded as providing each basis for categorization on the basis of explicit reports

	100% Rule—Foot	75% Rule—Body	Other
Explain—consistent	22	19	19
Explain—anomaly	26	10	24
Think aloud—consistent	8	17	35
Think aloud—anomaly	8	22	30

Table 4
Number of participants in Experiment 2 corresponding to each basis for categorization as inferred from transfer accuracy

	100% Rule—Foot	Not 100% Rule
Explain—consistent	21	39
Explain—anomaly	30	30
Think aloud—consistent	8	52
Think aloud—anomaly	13	47

Table 5

Number of participants in Experiment 3 coded as providing each basis for categorization on the basis of explicit reports

	100% Rule—Foot	75% Rule—Body	Other
Explain	17	9	34
Free study	8	19	33

Table 6

Number of participants reporting attempts to explain category membership in Experiment 3

Engaged in Explanation?	Explain	Free Study
Yes	29	23
Not sure	20	19
No	11	18

Table 7

Number of participants in Experiment 3 coded as providing each basis for categorization on the basis of explicit reports, further subdivided by self-reported explaining

	Engaged in Explanation?	100% Rule—Foot	75% Rule—Body	Other
Explain	Explain—yes	14	2	13
	Explain—other	3	7	21
Free study	Explain—yes	5	11	7
	Explain—other	3	8	26