

Individual Differences in Learning Strategy as they Relate to **Study Habits and Preferences**

Background

- Instructors often describe two types of learners: those who memorize and others who make connections between material.
- A typical function-learning task has been used to identify these strategies for learning.
- In the current study, we examined the educational 3. relevance of these types of learning.

General Methods

Function Learning

Training: 10 blocks of 20 randomly ordered oddnumbered input values between 80 and 120



Test: 60 trials in a single random order; 20 repeated training trials, 20 even-numbered values in the training range, and 20 odd-numbered values above and below the training range

Study Strategy Survey

20-item questionnaire designed to determine study habits and academic preferences

Sample Questions

Q3: For most classes, I tend to forget everything once the semester is over.

Q12: I like when test material builds off of previously taught concepts.

Q20: When I get a study guide, I memorize everything on it.

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Study 1

Purpose: Examine differences in study habits between rule and exemplar learners





Study 2

Results:



General Discussion

- We found no significant differences in study habits between rule and exemplar learners.
- Students may be able to flexibly apply learning strategies.
- When instructed, participants tended to use the 3. suggested learning strategy to meet the task demands.
- Collectively, these results may indicate that there is limited ecological validity of the function learning task.
- Future research should further examine classroom implications of function learning strategies.

Acknowledgements data collection.



Purpose: Examine if individuals can flexibly apply learning strategy when given explicit instruction

