

Parental Involvement in the use of Adaptive eBook Technology in Preschoolers: A Study Proposal

Patrick Ehrman

Advisor: Dr. Mary W. Fuhs

Department of Psychology, University of Dayton

Executive Function (EF) Skills

- Focus
- Regulation
- Working memory
- Flexible thinking

Role of Parent

Increased math language

Math Skills

Increased proficiency

Current Research

Method

Participants: 30 parent-preschooler pairs.

Materials: Adaptive eBook, traditional number book, questionnaire, math talk coding rubric

Procedure: Participants read one of the two books. Then, after reading, parents fill out the questionnaire.

Questions

Do eBooks encourage more “math talk” than traditional number books?

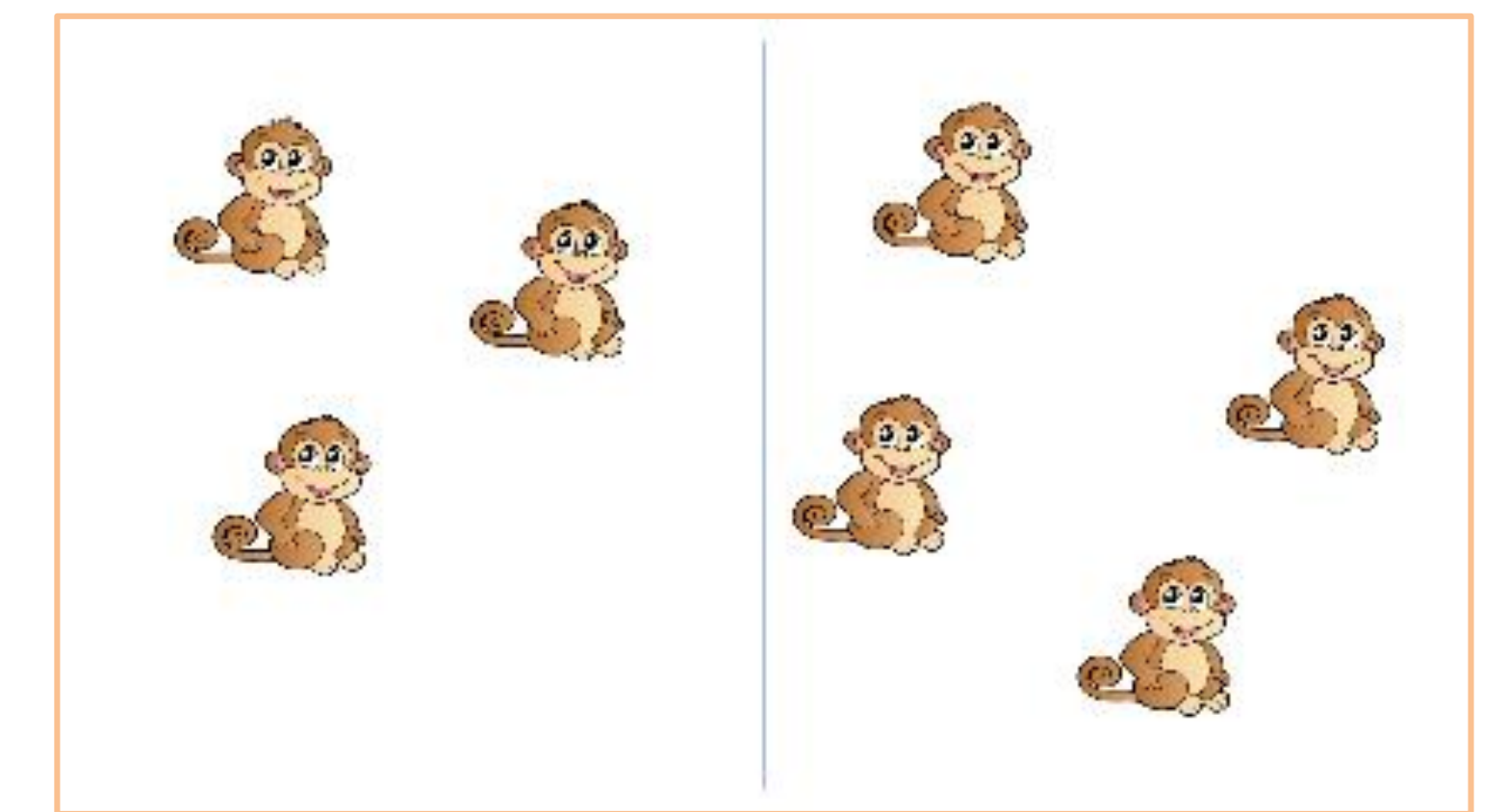
Do parents enjoy eBooks more than traditional number books?

Do certain types of parent “math talk” help children more than others?

Does the eBook’s adaptive design increase EF skills and math?

How it Works

Level 1: Homogeneous object sets. Object limit is 5.



After 7/10 Correct

Level 2: Non-homogeneous object sets. Object limit is 5.



After 7/10 Correct

Level 3: Non-homogeneous object sets. Object limit is 10.



After 7/10 Correct

Level 4: Non-homogeneous, object limit is 10. Background noise.

