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SOCIAL SENSITIVITY IN BILINGUAL CHILDREN

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BACKGROUND

Key Terms Previous Findings Knowledge Gap

Study Motivation

METHODS

Design

Hypothesis

Aaterials

Procedure

OUTCOMES

Data Analysis

Expected Outcomes

Alternative Outcomes

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Executive Functioning

Social Cognition

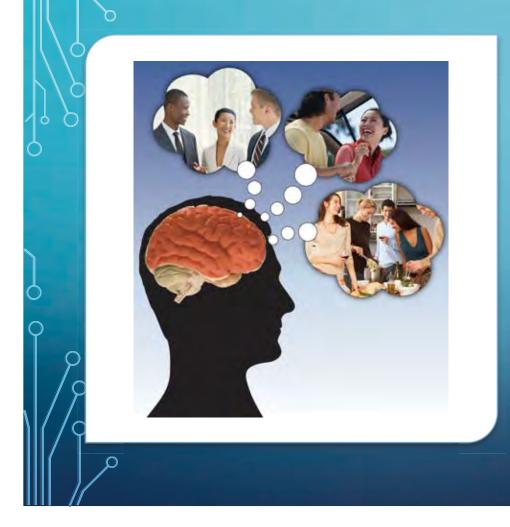
Referential Communication

Theory of Mind

Social Sensitivity

EXECUTIVE FUNCTIONING

 The ability to achieve one's goals using sets of cognitive processes such as inhibitory control, selective attention, working memory, planning and organization



SOCIAL COGNITION

• The ability to process and retrieve information from social interactions (Goetz, 2003; Frith, 2008; Weil, 2012)

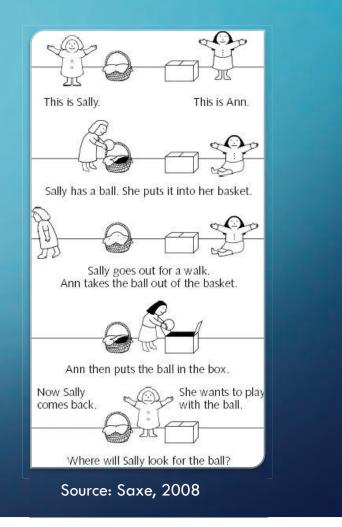
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• Theory of Mind

THEORY OF MIND

• The ability to recognize and attribute mental states to oneself and to others, and how to understand that others have different mental states from their own (Perner & Lang, 1999; Goetz, 2003; Weil, 2012; Kovacs, 2009)

- Belief, intent, desires, pretending, knowledge
- Perspective taking skills



REFERENTIAL COMMUNICATION

• The exchange of information between individuals

• The speaker provides enough information to the listener to ensure the listener can identify the entities, locations and movements

SOCIAL SENSITIVITY

- The ability to accurately perceive and comprehend the behavior, feelings and motives of other individuals (Rothenberg, 1970; Genesee & Lambert, 1975; Kovacs, 2009)
- Why is this important?
 - Important social skill to communicate effectively

PREVIOUS FINDINGS

- Bilingual children exceed monolingual peers in executive functioning tasks (Hukata, 1971; Perner & Lang, 1999; Bialystok, 2001; Blakemore & Choudhury, 2006)
- Bilingual children have better communication skills (Greenberg, Bellena & Biaylstock, 2003; Goetz, 2003)
- Studies in which use a monolingual, exposure, and bilingual group find similarities of advantages in both the exposure and bilingual group (Genesee & Lambert, 1975; Liberman, Woodward, Keysar, & Kinzler, 2017)

KNOWLEDGE GAP

- Research is limited to measuring one construct measure social sensitivity with monolingual and bilingual children
- Ambiguous understanding if executive functioning effects communication tasks
- No research as of date measuring children's degree of bilingualism

STUDY MOTIVATION

• Develop further understanding of how social sensitivity increases with the level of language exposure and proficiency



DESIGN OVERVIEW

- Children participants (5-7 years)
- 30+ participants
- Recruitment through the Children's Research Lab
- Control for SES & IQ

INDEPENDENT AND DEPENDENT VARIABLES

I.V.

- Degree of Bilingualism
- Executive Function score

D.V.

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- Communication Task
- Cognitive Perspective Taking Task

STUDY HYPOTHESIS

• As the degree of bilingualism increases, scores will also increase from the executive function task, cognitive perspective taking task, and referential communication task

MATERIALS & PROCEDURE

- Parent Questionnaire
- Child Questionnaire
- Raven's Coloured Progressive Matrices
- Executive Function Task
 - The Flanker Task
- Perspective Taking Task
 - The Three Mountain Problem
- Referential Communication Task

PARENT QUESTIONNAIRE

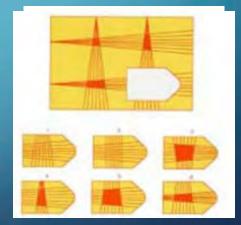
- Language History
- Language Use
- Language Proficiency
- Education
- Additional Comments

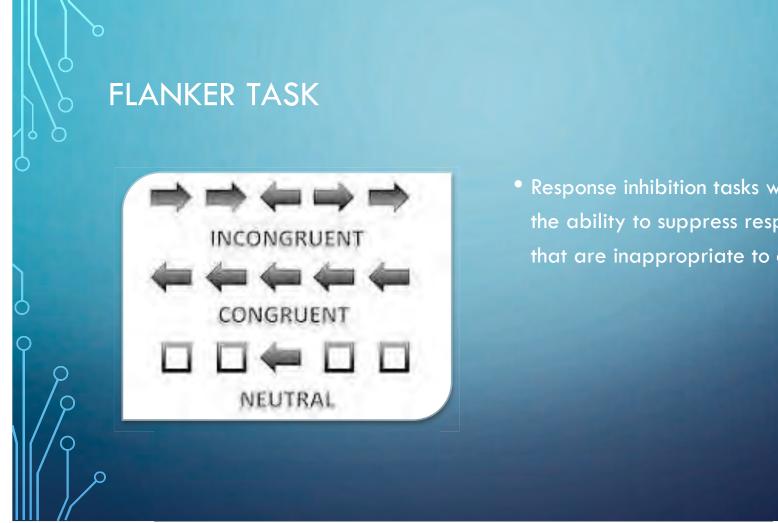
		0=not well at	all				1.1	B=	very w	røill'
12. a. How we	II does	your child speak English?	0	1	2	3	4	5	6	
1) Pl	a. b. c.	indicate the type of school program your child English based program English-Spanish Dual Language Program Spanish Immersion Program	is	cum	ently	enn	olle	d in:		
-	u.	Other	-							1
		1	-	- 0	•	-		-	5	-
		your child write English?	Ű.	+	2	3	. ¢	5		
15. a. How we	Il does	The cure units with ment								

CHILD QL	JESTIONNAIRE	
6	[D:Date: Age:Sex:	
	Critid Language Questionnaire	
	1. What languages do you speak with your Hendelplassmalle?	
	English Spanish Both	
	a. Do you speak another language with your triends/classmates? I. What language?	
	2. In which language do you prefer to read?	
	Englien Spanish Both	
	a. Do you like to read in any other languages? J. What language?	
	3. In which language do you prefer to count?	
	English Spanish Bon	
	a. Do you like to count in any other languages? 1. Whet language?	
	What language do you feel more comfortable using?	
	English Spanish Both	
	5. Which is your tavorte language?	
		()

RAVEN'S COLOURED PROGRESSIVE MATRICES

- Contains 36 geometric designs with
 - a missing piece
 - Most of the items are colored
- Estimates fluid intelligence





• Response inhibition tasks which tests the ability to suppress responses that are inappropriate to context

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THE THREE MOUNTAIN PROBLEM

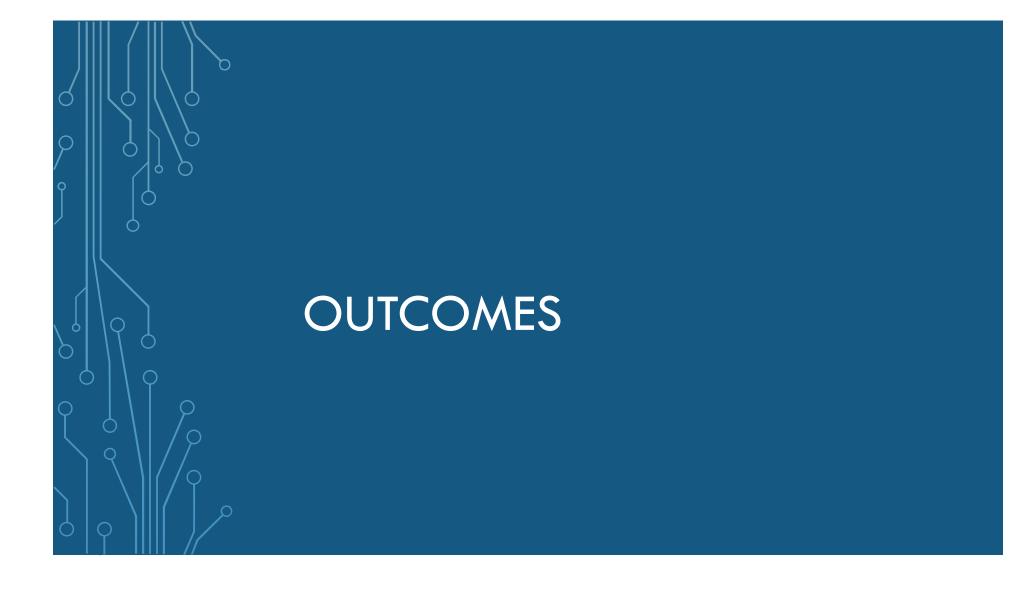


- Child chooses between 10 photographs in which best reflects the puppet's perspective
- Measures egocentrism and perspective taking

REFERENTIAL COMMUNICATION TASK

- Modified from the Language Communication Skills Task (Wang, 1973)
- Children will provide instructions to a puppet on where objects are located in a picture





DATA ANALYSIS

 Mixed-Effects Regression Model to test the interaction between a child's degree of bilingualism and executive function task to the child's scores from the cognitive perspective taking task and referential communication task

EXPECTED OUTCOMES

- Interaction between executive functioning and both the cognitive perspective taking task and referential communication task
- Socially sensitive children will be older, higher degree of bilingualism, and high scores on all measures

ALTERNATIVE OUTCOMES

- No effect between executive function and both the cognitive perspective taking task and the referential communication task
- No effect of the child's degree of bilingualism and social sensitivity

THANK YOU! ANY QUESTIONS?

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