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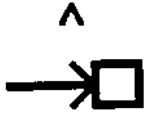






APPENDICES

Appendix 1











Numbered List of Fuller's(1997) 40 symbols

High Translucency–High Complexity Symbols








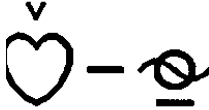


1	 <p>Brick</p>	6	 <p>Love</p>
2	 <p>Bus</p>	7	 <p>Pizza</p>
3	 <p>Car</p>	8	 <p>Push</p>
4	 <p>Chin</p>	9	 <p>Surprise</p>
5	 <p>Jail</p>	10	 <p>Train</p>



## High Translucency–Low Complexity Symbols











11	 apple	16	 girl
12	 banana	17	 jump
13	 bowl	18	 open
14	 dish	19	 stamp
15	 flag	20	 teeth

## Low Translucency–High Complexity Symbols

21	 <b>birthday</b>	26	 <b>sister</b>
22	 <b>coke</b>	27	 <b>sleep</b>
23	 <b>cookie</b>	28	 <b>sock</b>
24	 <b>pancake</b>	29	 <b>thirsty</b>
25	 <b>popcorn</b>	30	 <b>toothbrush</b>

















## Low Translucency–Low Complexity Symbols

31	 eat	36	 muscle
32	 food	37	 name
33	 grass	38	 off
34	 head	39	 policeman
35	 lie	40	 small


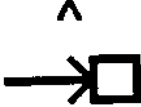






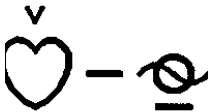


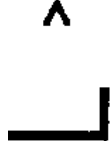


Appendix 2a  
Symbol Set 1

H-high, L-low, T-translucency, C-complexity

HTHC		HTLC	
			
2. bus	7. pizza	11. apple	13. bowl
	LTHC		
			
20. teeth	22. coke	24. pancake	25. popcorn
	LTLC		
			
26. sister	31. eat	33. grass	36. muscle
			
37. name	39. policeman		

Appendix 2b  
Symbol Set 2

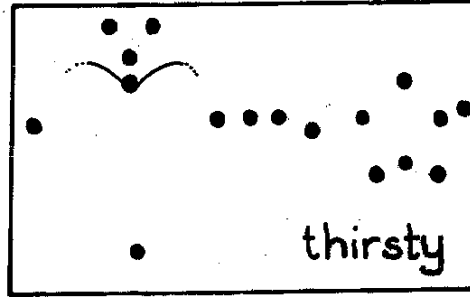
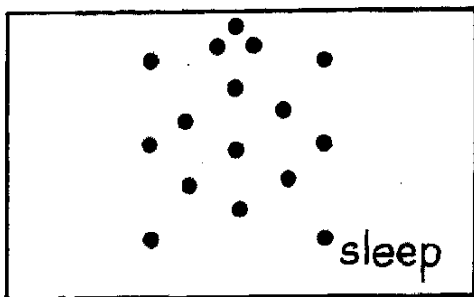
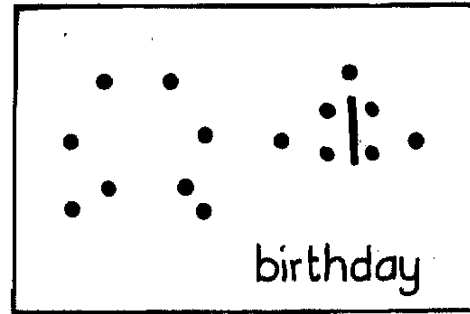
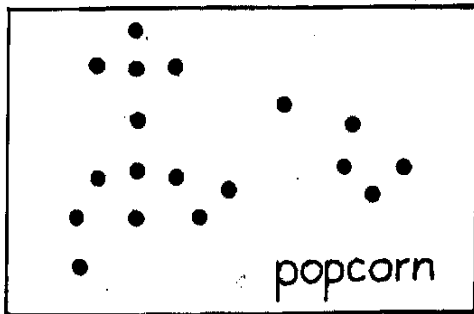
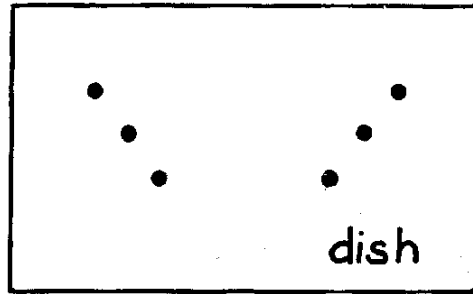
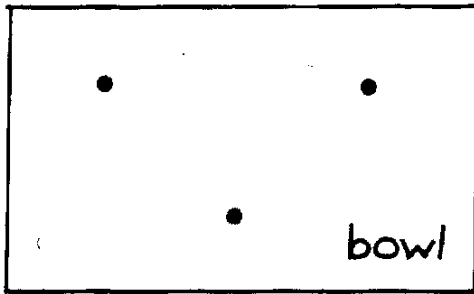
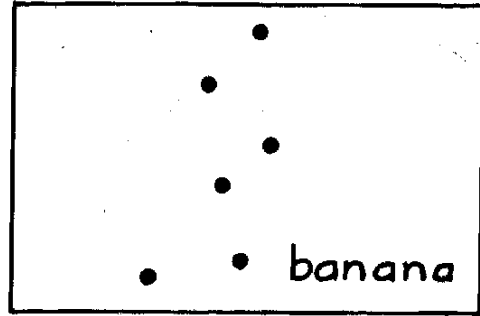
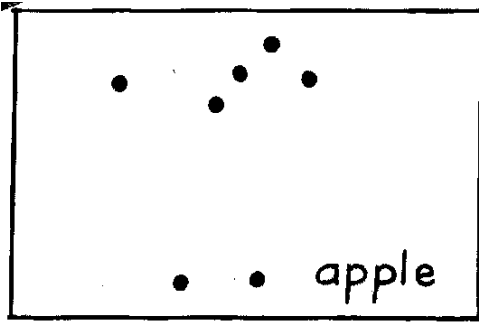
H-high, L-low, T-translucency, C-complexity

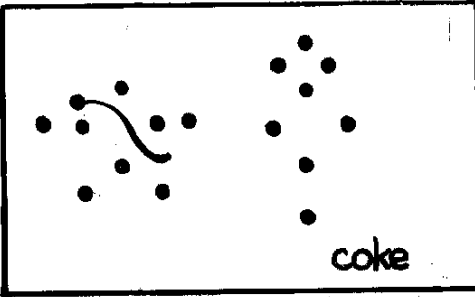
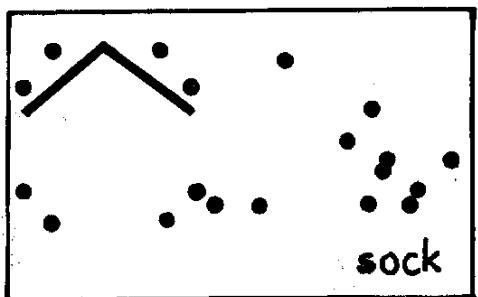
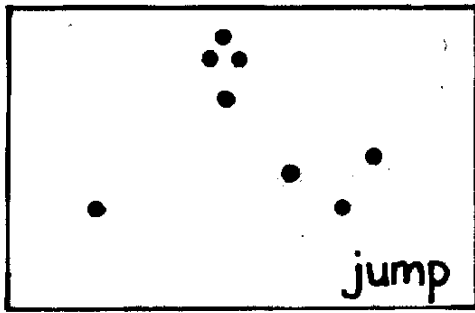
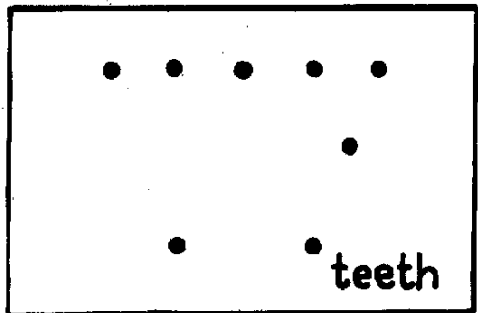
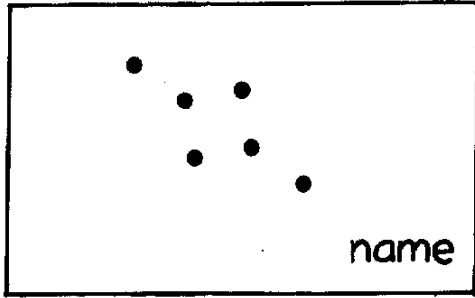
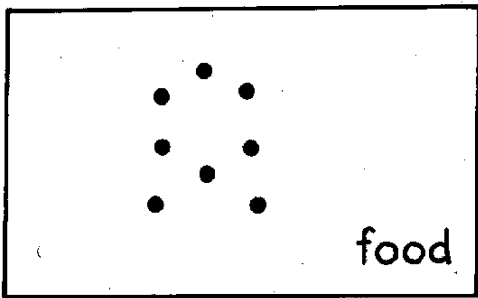
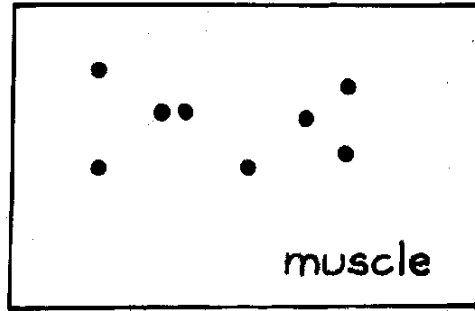
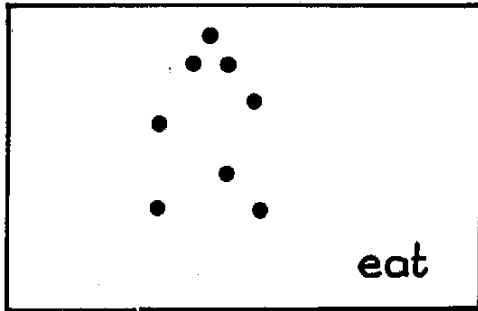
HTHC			HTLC		
3. car	8. push	12. banana	14. dish		
	LTHC				
17. jump	21. birthday	27. sleep	28. sock		
	LTLT				
29. thirsty	32. food	34. head	35. lie		
					
38. off	40. small				



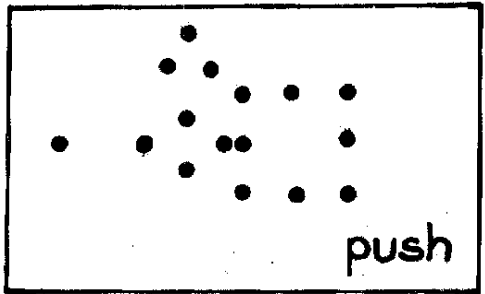
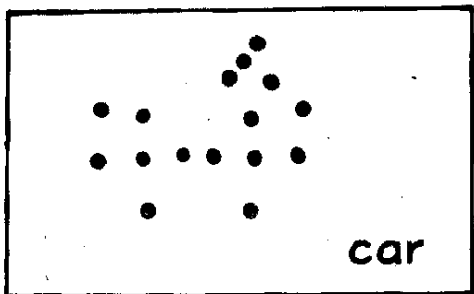
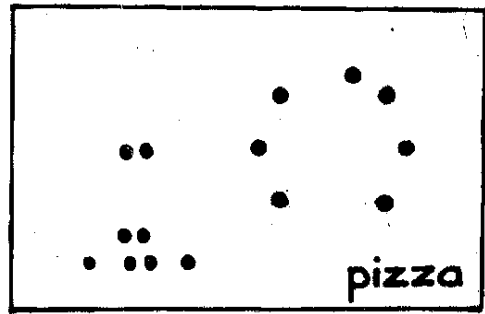
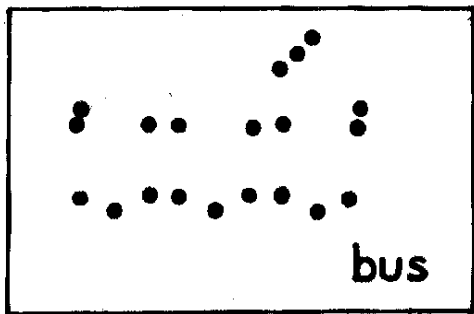
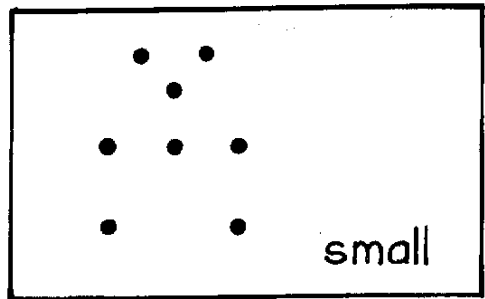
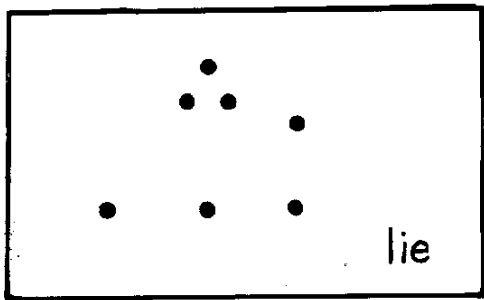
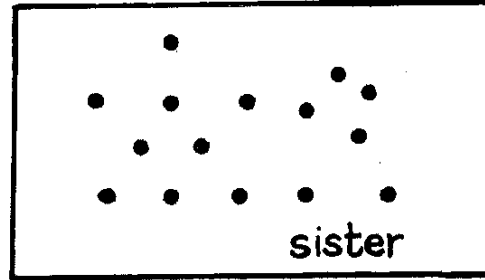
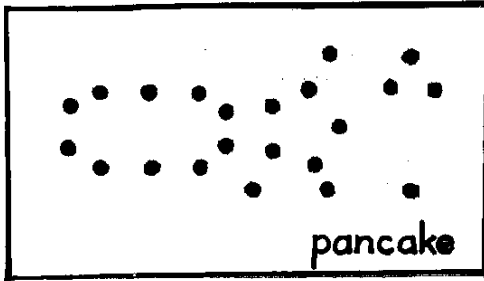
Appendix 3a

Connect-the-Dot Illustrations





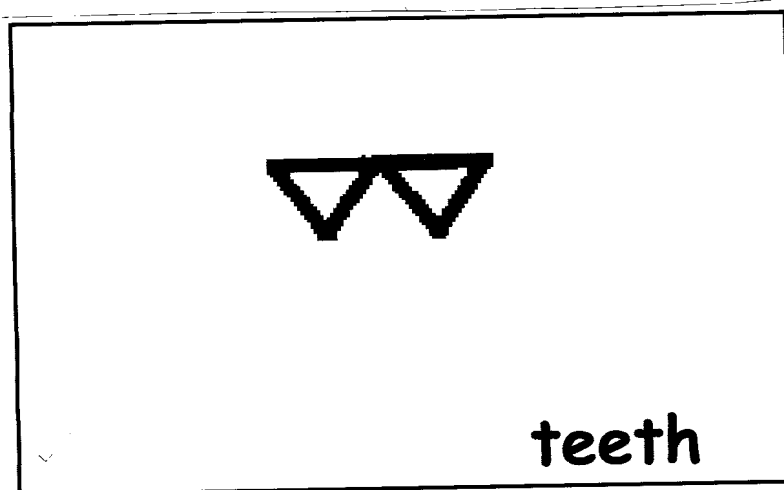
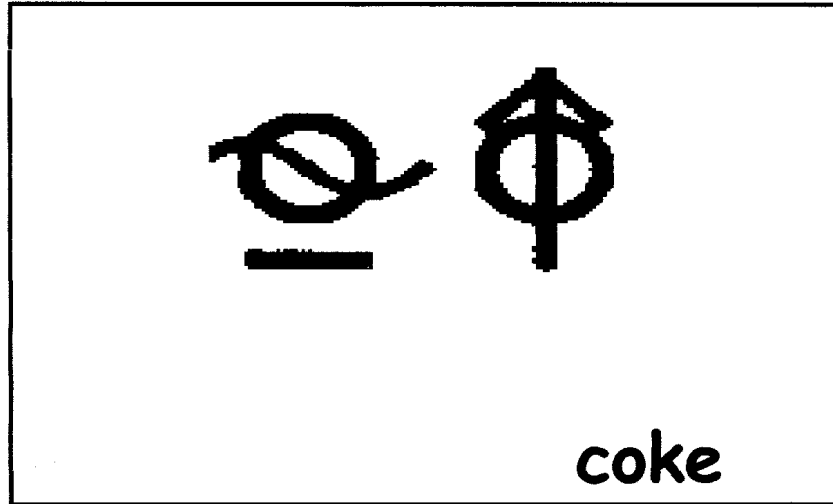






Appendix 3b

Examples of the Blissymbol Cards





## **Appendix 4**

### **Symbol Rating Instructions**

#### **BOOKLET 1 TRANSLUCENCY**

In this booklet you have to evaluate 40 symbols. The symbol and its representative word is given in the tables in this booklet. You are required to think about how related the symbol and the word it represents is. The word the symbol stands for is written below the symbol. Please try to locate the symbols and the representing words now. If you think the word is very strongly related to the symbol, then tick 1. If you feel the word and the symbol is definitely unrelated, tick 7. Use the numbers between 1 and 7 to rate various levels of the relationship between the word and the symbol. You may use a number more than once. Do you have any questions? Please start rating all 40 symbols now.

#### **BOOKLET 2 FAMILIARITY**

In this booklet you are required to make judgements regarding how familiar you are with the words provided. A word is provided in column one and is numbered from 1 to 40. Please locate this now. If you know the word and it is very familiar to you, tick 1. If you think the word is unknown and very unfamiliar to you, tick 7. Use the numbers between 1 and 7 to rate the various degrees of your familiarity with the word. You may use a number more than once. Please work slowly and rate all the words. Lets begin rating all the symbols now.

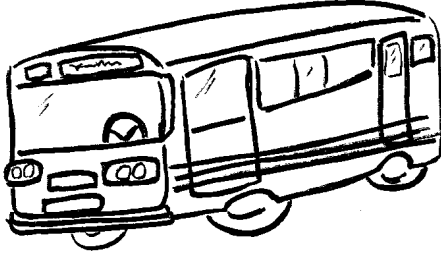
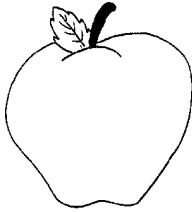

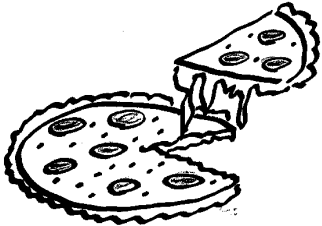
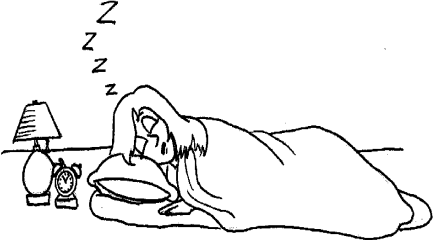

#### **BOOKLET 3 FREQUENCY OF USE**

In this booklet you are required to make judgements regarding how often we use some words as opposed to others in everyday life. A word is provided in column one and is numbered from 1 to 40. Please locate this now. If you think we use the word often, tick 1. If you think the word is not used often, tick 7. Use the numbers between 1 and 7 to rate the various degrees of use of the word. You may use a number more than once. Please work slowly and rate all the symbols. Do you have any questions? Lets begin to rate all the words now.

### Appendix 5a

### The Pointing and Receptive Language Test







#### Example of Grid



Appendix 5b

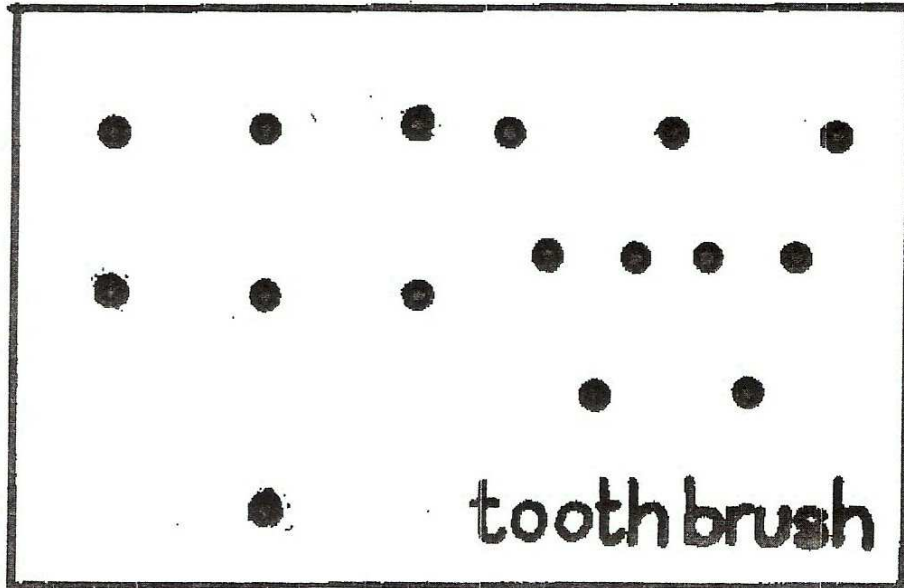
The Visual Discrimination Test



Appendix 5 c

The Connect-the Dot Execution Test













Appendix 6a

Example of a Probe Grid for Set 1

Symbol Set 1 page 1



Probe Grid Set 1 page 2





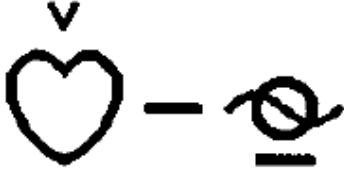





Appendix 6b

Example of a Probe Grid for Set 2

SET 2 page 1



Probe Grid Set 2 page 2



Appendix 7a

Probe Measure Scoring Form

SYMBOL SET 1

Participant No.:.....Probe Label: .....









TREATMENT TYPE:.....SESSION:.....







**Procedure:** Score a 1 for each symbol correctly identified. Score a 0 if incorrectly identified. Tally total number of correctly identified symbols.

**Instructions:** “Please point to the symbol that you think matches the word I say. Do you understand? Lets start. Show me .....”

**SCORE:**

Number of symbols correctly identified: \_\_\_\_ Number of symbols incorrect: \_\_\_\_

Symbol and Referent	Score	Symbol & Referent	Score
 bus		 pizza	
 bowl		 muscle	
 pancake		 popcorn	
 sister		 policeman	

Symbol and Referent	Score	Symbol & Referent	Score
 coke		 name	
 teeth		 grass	
 eat		 apple	



Appendix 7b

Probe Measure Scoring Form

SYMBOL SET 2

PARTICIPANT NO:.....Probe Label:.....




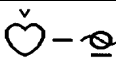




TREATMENT TYPE:.....SESSION: .....







**Procedure:** Score a 1 for each symbol correctly identified. Score a 0 if incorrectly identified. Tally total number of correctly identified symbols.

**Instructions:** “Please point to the symbol that you think matches the word I say. Do you understand? Lets start. Show me .....”

**SCORE:**

Number of symbols correctly identified:\_\_\_\_ Number of symbols incorrect:\_\_\_\_

Symbol and Referent	Score	Symbol & Referent	Score
 jump		 banana	
 sleep		 thirsty	
 food		 car	
 lie		 head	

Symbol and Referent	Score	Symbol & Referent	Score
 push		 birthday	
 dish		 off	
 sock		 small	



## **Appendix 8a**

### **Inter-Rater Procedure**

### **Instructions to Raters**

#### **1. Translucency Rating**

You are presented with pairs of symbols together with their referents. You are asked to rate how well matched the symbol pairs presented to you are in terms of their TRANSLUCENCY that is to compare how well the symbol pairs presented to you are related to their referents. If you feel the symbols are both equally related to their referents, that is, they are both the same in terms of their translucency, allocate the pair a 7. However, if you feel that the pair of symbols are different in terms of their translucency, that is not equally related to their referents, then allocate the pair a 1. Use the numbers between 1 and 7 to rate the relatedness of symbol pairs to their referents.

#### **2. Frequency of Use**

Now you are presented with pairs of symbol referents. You are now required to evaluate the symbol referent pairs for how often they are used in everyday life. If you feel both symbol referents in the pair share an equal level of use in everyday life, allocate the symbol pair a 7. However, if you feel the symbol referent pairs do not share an equal level of use in everyday life, that is one referent maybe used more often than the other, allocate the pair a 1. Use the numbers between 1 and 7 to rate the various levels of perceived use of the referent.

#### **3. Familiarity**

Now you are presented with pairs of symbol referents. You are now required to rate how well matched the symbol referent pairs are in terms of their familiarity to you. If you know both symbol referents in the pair equally well, rate the pair a 7. However, if you know one symbol referent more or less than the other, then rate the symbol pairs a 1. Use the numbers between 1 and 7 to rate the various levels of perceived familiarity between the symbol referents in the pair.















**Appendix 8b**  
**Likert Scale for Inter-Rater Procedure:**  
**Frequency of Use Rating**  
**Familiarity Rating**

No.	REFERENT	RATING						
		1	2	3	4	5	6	7
1	bus car							
2	pizza push							
3	apple banana							
4	pizza pancake							
5	teeth jump							
6	dish bowl							
7	eat cookie							
8	coke popcorn							
9	pancake birthday							
10	sister sleep							
11	sock thirsty							
12	toothbrush cookie							
13	eat head							
14	toothbrush jump							
15	grass off							
16	sock dish							
17	lie name							
18	muscle small							
19	policeman food							
20	teeth cookie							



**Appendix 8c**  
**Likert Scale for Inter-Rater Procedure:**  
**Translucency Rating**

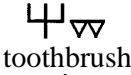



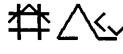









	Symbol Pair	RATING						
		1	2	3	4	5	6	7
1	 Bus  Car							
2	 Pizza  Push							
3	 apple  banana							
4	 Pizza  pancake							
5	 teeth  jump							
6	 dish  bowl							



7	 eat  cookie							
8	 coke  Popcorn							
9	 pancake  birthday							
10	 sister  sleep							
11	 sock  thirsty							
12	 toothbrush  cookie							
13	 eat  head							





14	 toothbrush  jump							
15	 grass  off							
16	 sock  dish							
17	 lie  name							
18	 muscle  small							
19	 policeman  food							
20	 teeth  cookie							

**Appendix 9**  
**Inter-Rater Checklist for Treatment Reliability**

Thank you for taking the time to complete this checklist. Your task is to evaluate the treatment procedures used during the experimental sessions. Three video recorded sessions have been randomly selected for your review. Kindly watch the video and then work through the checklist. You are required to tick YES or No for each question.

Rating Parameters	YES	NO
<b>TRAINING PROCEDURES</b>		
<b>A. Self-Generation (SG) Strategy</b>		
1. Presents complete symbol and dot drawing together?		
2. Instructions given on how to complete dot drawing?		
3. Complete symbol remains in view for reference?		
4. Where any construction cues given?		
5. Where any understanding cues given?		
6. Where all 14 symbols presented for completion?		
7. Did the exposure time exceed one minute?		
<b>B. Non-generation (NG) Strategy</b>		
8. Presents only complete symbol picture		
9. Referents name given.		
10. Instruction given to examine symbol?		
11. Where all 14 symbols presented?		
12. Where any understanding cues given?		
13. Was a maximum of one minute exposure time to each symbol allowed?		
<b>PROBE MEASURES</b>		
14. Have any cues being given to aid symbol identification during probe measures?		
15. Where all 14 symbols tested for identification?		
16. Using the recognition probe score form provide. Score the participants recognition levels. Now compare it to the previous examiners scores. Does your own score and the examiners score match?		



**Appendix 10  
Letter of Consent**

*Centre for*                      *Sentrum vir*  
*Augmentative and*        *Aanvullende en*  
*Alternative*                    *Alternatiewe*  
*Communication*            *Kommunikasie*  
**&**  
**INTERFACE**



- 2004: T-Systems Age of Innovation & Sustainability Awards: Excellence in Innovation and Sustainability: Social
- 2003: National Science & Technology Awards: Corporate Organization over the last ten years.
- 2002: Shirley McNaughton Award for Exemplary Communication received from the International Society for Augmentative and Alternative Communication
- 1998: Rolex Award for Enterprise: Associate Laureate
- 1995: Education Africa Presidential Award for Special Needs

website: <http://www.up.ac.za/academic/caac>

Fax/Faks: (012) 420 – 4389

**Tel: (012) 420 – 2001**  
**E-mail: [erna.alant@up.ac.za](mailto:erna.alant@up.ac.za)**  
**Faculty of Education / Fakulteit Opvoedkunde**  
**Centre for Augmentative and Alternative Communication**  
**Sentrum vir Aanvullende en Alternatiewe Kommunikasie**  
**University of Pretoria, Lynnwood Road**

Date

Dear.....,

I am currently completing a PhD in Alternate and Augmentative Communication at the University of Pretoria, Center for Alternate and Augmentative Communication (CAAC) under the supervision of Professor Erna Alant (TEL: 012 4204001).

The title of my research study is *The Application of the Self-Generation Effect to the Learning of Blissymbols by persons with Severe Aphasia*. I will be testing how the method of self-generation can help a person with severe aphasia learn symbols which then can be used to aid communication.

This letter seeks to obtain your consent for your or your spouse's/partner's/parent's participation in this research study.

Should you agree, the participant will be involved in approximately four sessions with me which will be conducted at Headway or any other venue that is most convenient to you including homevisits. There will be no charges for these sessions. Additionally, full confidentiality will be maintained. At no time will your name or contact details be divulged. The study sessions will have the format of a typical speech therapy session. A short description of the sessions will now follow:

- Session 1 (approximately 45 mins): Basic screening assessment will be conducted in order to describe the speech-language difficulty and to determine eligibility for participation in the study,

- Session 2(approximately 1 hr): Training on learning 15 new symbols using two different therapy methods or approaches. This will include a short test following training to see how many symbols were learnt.
- Session 3(approximately 1 hr): This must occur 2 days after session 2. Includes re-training to learn same 15 symbols using two approaches. Testing to follow training.
- Session 4(approximately 1 hr): This must occur 7 days following session 2. Includes final training to learn the same 15 symbols with a testing procedure following training.

The materials I will be using during these sessions include symbol picture cards and symbol picture grids. The participant will be asked to complete a connect-the-dot picture of some symbols. At no time will the participant be exposed to any physical harm during the sessions. Family members are welcome to observe sessions which will be fully video recorded.

I do hope you will agree to participate in this study. The results will definitely go towards helping us understand how persons with severe aphasia can best be assisted by alternate forms of communication. My results will be shared with you as soon as it becomes available.

Looking forward to working together with you in this regard.

Thanking you

.....  
Priya Rajaram  
B.Sp and Hearing (UDW), M.ECI (UP)  
Audiologist and Speech Therapist  
Parklands Hospital  
TEL: 031-2081014/ 0722712270

**Please sign to acknowledge consent of your or your spouse/ partner's participation.**

Participants Name:.....  
Sign:.....  
Spouse/Partners Name:.....  
Sign:.....  
Date:.....