GUIDED PLAY

Reference

Hembree, S., & Maas, F. (1996). 24-month guided play coding manual. Unpublished manual, University of Wisconsin-Madison.

Secondary References

Belsky, J., & Most, R. K. (1981). From exploration to play: A cross-sectional study of infant free play behavior. *Developmental Psychology*, *17*(5), 630-639.

Goldsmith, H. H., Aksan, N., Essex, M., Smider, N. A., & Vandell, D. L. (2001). Temperament and socioemotional adjustment to kindergarten: A multi-informant perspective. In T. D. Wachs & G. A. Kohnstamm (Eds.), *Temperament in context* (pp. 103-138). Mahwah, NJ: Erlbaum.

Companion Documents

Spiegel, G. (1997). A study of the relationship between maternal report of infant behavior at 6 months and observation of behavioral inhibition at 15 and 24 months. Unpublished manuscript, University of Wisconsin-Madison.

Spiegel, G. F. (2003). Child temperament and mother-toddler interaction in a socialization task (Doctoral dissertation, University of Wisconsin-Madison, 2003). *Dissertation Abstracts International*, 64(5-A), 1530.

Description

The guided play procedure is a 30-minute play session designed to assess (1) children's separations from and reunions with their mothers; (2) children's levels of social, solitary, and pretend play; and (3) children's emotionality and behavior during the procedure. Prior to the start of the play session, children are asked to separate from mother and go to the playroom with research staff. Upon entering the playroom, free play is conducted for 5 minutes, followed by 25 minutes of structured, guided play. At the end of the session, the child is reunited with mother.

The guided play procedure is videotaped for later coding, as follows.

- Separation from mother is rated on a 4-point scale (1 = *easy separation*, 4 = *will not separate*).
- The complexity and cognitive sophistication of the child's level of play during both the free play and guided play components are rated using a 5-step system adapted from Belsky & Most (1981) that includes 1 = *unfocused play*, 2 = *exploratory play*, 3 = *functional/relational play*, 4 = *simple pretend play*, and 5 = *elaborate pretend play*. Free play is coded in 15-second intervals (up to 18 intervals). For guided play, the child's response to each of four standard prompts is coded. Two "other", nonstandard prompts also can be provided. The prompts are designed to involve the child in increasingly higher levels of social and pretend play as the administrator goes from Prompt 1 to Prompt 2 to Prompt 3 to Prompt 4.
- Reunion behavior with mother in terms of anger, pleasure/positive affect, contact, and avoidance is rated on a 4-point scale (0 = low, 3 = high).
- Eleven indicators of child emotionality observed during the procedure are rated on a 5point scale (1 = *low*, 5 = *high*). These ratings are adapted from a set of 26 emotionality/temperament ratings that were developed to represent temperament

dimensions that appear on popular questionnaire measures of child temperament (e.g., *Child Behavior Questionnaire, Toddler Behavior Assessment Questionnaire*; Goldsmith et al., 2001).

See Hembree & Maas (1996) for additional information about administration of the guided play procedure, coding of play levels, and definitions of the separation, reunion, and child ratings.

Spiegel (1997, 2003) used the guided play data for her in-lieu-of master's research project and her doctoral research, in conjunction with data from several common protocol measures. We do not have the data sets nor the paper forms from these projects.

Administration: 24 months

The guided play procedure was administered to <u>children</u> (n = 117) during the common protocol lab visit at 24 months. Note that similar coding of play levels was done for the solitary play procedure conducted for the common protocol at 15, 24, and 36 months.

Interrater Reliability

Two raters scored 12 (10%) of the guided play videotapes for purposes of calculating interrater reliability. One of two types of reliability statistics, Cohen's kappa coefficient or intraclass correlation, was computed depending on the type of variable. These coefficients are shown in the scoring section below. Kappa coefficients for the separation, reunion, and child emotionality ratings were computed with linear weighting. Kappas for levels of play are unweighted.

Scoring

Separation

Higher scores indicate greater difficulty separating from mother prior to the guided play procedure.

GPSEPARA N = 113, M = 1.86, SD = 1.22, range = 1-4, kappa = .75

Reunion

Higher scores indicate greater intensity of the indicated affective quality of the child's reunion with mother.

Anger = **GPREUANG** N = 88, M = 0.02, SD = 0.15, range = 0-1, kappa = 1 Pleasure/positive affect = **GPREUPLE** N = 88, M = 1.61, SD = 0.90, range = 0-3, kappa = .64 Contact = **GPREUCON** N = 88, M = 2.03, SD = 0.60, range = 0-3, kappa = .89 Avoidance = **GPREUAVO** N = 88, M = 0.23, SD = 0.62, range = 0-3, kappa = .56

Free Play: Levels of Play

The child's level of play during the free play session was coded for 15-second intervals. Up to 18 intervals could be coded. Scores are adjusted frequencies: # intervals in which the play level was

observed / # coded intervals, multiplied by 18.

Unfocused play = **FPUNFOC** N = 110, M = 2.07, SD = 4.25, range = 0-18, intraclass r = .79Exploratory play = **FPEXPLOR** N = 110, M = 8.30, SD = 4.50, range = 0-18, intraclass r = .95Functional/relational play = **FPFUNREL** N = 110, M = 6.77, SD = 4.36, range = 0-16, intraclass r = .94Simple pretend play = **FPSIPRET** N = 110, M = 0.76, SD = 1.50, range = 0-7, intraclass r = .30Elaborative pretend play = **FPELPRET** N = 110, M = 0.09, SD = 0.38, range = 0-2.12; intraclass r could not be computed because all reliability cases were scored 0

Guided Play: Levels of Play

The child's level of play in response to prompts from the administrator was coded for two play activities, the car and the kitchen. All levels of play in response to each prompt were coded. Scores for highest level of play (car and kitchen) are means of the highest level of play in response to each delivered prompt.

Car, number of prompts delivered = GPCARNPR N = 117, M = 3.91, SD = 0.76, range = 1-6, intraclass r = .93Car, highest standard prompt delivered= **GPCARHPR** N = 117, M = 3.92, SD = 0.37, range = 1-4, kappa = 1Car, highest level of play = **GPCARLEV** N = 116, M = 3.24, SD = 0.50, range = 1.50-4.60, intraclass r = .81Car, number of prompts to which child played with other toys = GPCAROTH [Score is adjusted for the number of prompts delivered: # prompts to which child played with other toys / # prompts delivered, multiplied by 6] N = 116, M = 0.46, SD = 0.96, range = 0.4, intraclass r = .77Kitchen, number of prompts delivered = **GPKITNPR** N = 117, M = 4.38, SD = 0.88, range = 3-6, intraclass r = .73Kitchen, highest standard prompt delivered= GPKITHPR N = 117, M = 3.87, SD = 0.34, range = 3-4, kappa = 1Kitchen, highest level of play = **GPKITLEV** N = 116, M = 3.67, SD = 0.60, range = 2-5, intraclass r = .89Kitchen, number of prompts to which child played with other toys = **GPKITOTH** [Score is adjusted for the number of prompts delivered: # prompts to which child

played with other toys / # prompts delivered, multiplied by 6]

N = 117, M = 0.39, SD = 0.90, range = 0-6, intraclass r = .88

Overall Highest Levels of Play

The child's highest level of play throughout the guided play sessions with the car and the kitchen, either in response to a prompt or independent of a prompt, was coded as the highest

level of play for that activity.

Car, overall highest level of play = **GPCARHI** N = 117, M = 4.07, SD = 0.75, range = 2-5, kappa = .86 Kitchen, overall highest level of play = **GPKITHI** N = 117, M = 4.68, SD = 0.57, range = 2-5, kappa = .76

Child's Emotionality

Higher scores indicate greater intensity of the indicated temperamental or emotionality dimension during the free play and guided play segments.

Positive affect = GPPA N = 117, M = 2.91, SD = 1.00, range = 1.5, kappa = .76Negative affect = **GPNA** N = 117, M = 1.17, SD = 0.50, range = 1-4, kappa = .45Adaptation = **GPADAPT** N = 117, M = 3.72, SD = 0.93, range = 2-5, kappa = .69Exploration = **GPEXPLOR** N = 117, M = 2.80, SD = 0.87, range = 1-5, kappa = .22Social engagement = **GPSOCENG** N = 117, M = 3.41, SD = 1.06, range = 1.5, kappa = .66Cooperation = GPCOOP N = 117, M = 3.31, SD = 1.01, range = 1.5, kappa = .68Compliance = **GPCOMPLY** N = 117, M = 4.04, SD = 0.67, range = 2-5, kappa = .57Energy/enthusiasm = **GPENERGY** N = 116, M = 3.26, SD = 1.17, range = 1.5, kappa = .52Initiative = **GPINITVE** N = 117, M = 3.20, SD = 0.97, range = 1-5, kappa = .77Social avoidance = **GPSOCAV** N = 117, M = 4.75, SD = 0.49, range = 3-5, kappa = .74Attention = **GPATTN**

N = 117, M = 3.49, SD = 0.89, range = 2-5, kappa = .57

<u>Flags</u>

Data were flagged during free play or guided play if certain conditions existed, such as mother's presence in the playroom, play session cut short, child distressed, etc. Where flagged, the variables below are scored 1.

Free play flag = **FPFLAG** # cases flagged = 29 Guided play flag = **GPFLAG** # cases flagged = 34 Reunion flag = **REUFLAG** # cases flagged = 45

Analysis Data Set SS24MO

Raw Data Sets C24GP C24GPR

GUIDED PLAY Data Entry Key

ID		_	Reli	ability? Yes No	
Coder	ID	D Date of interaction			
	SEPARATE = rat	ing for separation from me	other; missing $= 9$		
	If "blocke	VINT = number of intervals coded (possible range = 1-18) If "blocked/uncodeable" is marked in any interval and no other code is marked, do <u>not</u> count that interval in the tally.			
	FPLAYUNF = nu	mber of intervals marked	Unfocused		
	FPLAYEX = num	ber of intervals marked E	xploratory Play		
	FPLAYFR = num	ber of intervals marked Fu	inctional/Relational		
	FPLAYSP = num	ber of intervals marked Si	mple Pretend		
	FPLAYEP = num	ber of intervals marked El	aborative Pretend		
MOMENTER = mother enters room; yes = 1, no = 0 MOMENTIN = interval when mother enters room If mother did not enter, code 99					
	 FPLAYFLG = free play flag; yes = 1, no = 0 If neither is circled, enter 0 for "no" unless a reason is written, the full 5 minutes are not coded, or mother enters the room (enter 1 for "yes"). Other possible reasons for a flag listed in the coding manual include: Camera malfunctioned or child not visible Child obviously distressed 				
CARHIGH = highest level of play with prompt for the car activity					
	KITHIGH = highest level of play with prompt for the kitchen activity				
	For both C of play:	CARHIGH and KTIHIGH,	use the following codes for	the highest level	
	Blo Un	pcked/uncodeable = 0 focused = 1 ploratory = 2	Functional/relation Simple pretend = 4 Elaborate pretend =		
	If neither i	easons for a flag listed in the Played with car or kitcher	unless a reason is written (e he coding manual include: n for less than 3 minutes 2 standard prompts (check th c child not visible		

CAR LEVEL OF PLAY WITH PROMPT

For the following variables, code whether the prompt was provided; yes = 1, no = 0. If Y or N is not circled and no marks appear in any of the cells in that column, code 0. If Y or N is not circled and something is marked in that column, code 1.

CARP1 = Prompt 1	CARP4 = Prompt 4
CARP2 = Prompt 2	CAROP1 = Other Prompt 1
CARP3 = Prompt 3	CAROP2 = Other Prompt 2

For the following variables, code whether "plays with other toy" is marked; yes = 1, no = 0. Code missing = 9 if:

- the prompt was not given (a 0 code in the variables directly above)
- either "blocked/uncodeable" or "not enough time to code" is marked

CARTOY1 = Plays with other toy for Prompt 1
 CARTOY2 = Plays with other toy for Prompt 2
 CARTOY3 = Plays with other toy for Prompt 3
 CARTOY4 = Plays with other toy for Prompt 4
 CARTOY01 = Plays with other toy for Other Prompt 1
 CARTOY02 = Plays with other toy for Other Prompt 2

For the following variables, code the highest level of play as shown <u>below</u> the double line. If more than one level of play is marked for a prompt, code only the <u>highest</u> level for that prompt. Note that the level of play may be marked with an X or with a written description of the play.

Unfocused = 1	Simple pretend $= 4$
Exploratory $= 2$	Elaborate pretend = 5
Functional/relational = 3	1
-0 if	

Code missing = 9 if:

- the prompt was not given (a 0 code in the prompt variables above)
- the prompt was given <u>and</u> "blocked/uncodeable", "plays with other toy", or "not enough time to code" is coded 9 <u>and</u> nothing is marked below the double line
- ____ CARPL1 = Prompt 1 highest level of play
- _____ CARPL2 = Prompt 2 highest level of play
- _____ CARPL3 = Prompt 3 highest level of play
- _____ CARPL4 = Prompt 4 highest level of play
- _____ CAROPL1 = Other Prompt 1 highest level of play
- _____ CAROPL2 = Other Prompt 2 highest level of play

<u>KITCHEN</u> LEVEL OF PLAY WITH PROMPT

For the following variables, code whether the prompt was provided; yes = 1, no = 0. If Y or N is not circled and no marks appear in any of the cells in that column, code 0. If Y or N is not circled and something is marked in that column, code 1.

KITP1 = Prompt 1	KITP4 = Prompt 4
KITP2 = Prompt 2	KITOP1 = Other Prompt 1
KITP3 = Prompt 3	KITOP2 = Other Prompt 2

For the following variables, code whether "plays with other toy" is marked; yes = 1, no = 0. Code missing = 9 if:

- the prompt was not given (a 0 code in the variables directly above)
- either "blocked/uncodeable" or "not enough time to code" is marked

KITTOY1 = Plays with other toy for Prompt 1

KITTOY2 = Plays with other toy for Prompt 2

KITTOY3 = Plays with other toy for Prompt 3

_____ KITTOY4 = Plays with other toy for Prompt 4

- _____ KITTOYO1 = Plays with other toy for Other Prompt 1
- KITTOYO2 = Plays with other toy for Other Prompt 2

For the following variables, code the highest level of play as shown <u>below</u> the double line. If more than one level of play is marked for a prompt, code only the <u>highest</u> level for that prompt. Note that the level of play may be marked with an X or with a written description of the play.

Unfocused = 1	Simple pretend $= 4$
Exploratory $= 2$	Elaborate pretend = 5
Functional/relational = 3	3
-1	

Code missing = 9 if:

- the prompt was not given (a 0 code in the prompt variables above)
- the prompt was given <u>and</u> "blocked/uncodeable", "plays with other toy", or "not enough time to code" is coded 9 <u>and</u> nothing is marked below the double line
- ____ KITPL1 = Prompt 1 highest level of play
- _____ KITPL2 = Prompt 2 highest level of play

_____ KITPL3 = Prompt 3 highest level of play

- _____ KITPL4 = Prompt 4 highest level of play
- _____ KITOPL1 = Other Prompt 1 highest level of play
- _____ KITOPL2 = Other Prompt 2 highest level of play

CHILD RATINGS

GPPA = positive affect

GPNA = negative affect

GPADAPT = adaptation

GPEXPLOR = exploration

GPSOCENG = social engagement

GPCOOP = cooperation

GPCOMPLY = compliance

GPENERGY = energy/enthusiasm

GPINITVE = initiative

GPSOCAV = social avoidance

GPATTN = attention

REUNION RATINGS

REUANGER = anger

REUPLEAS = pleasure

REUCONT = contact

REUAVOID = avoidance

REUFLAG = reunion flag