NAT Naturalistic Action Test					Subject and test details		
Scoring sheet: Comprehensive Error Score				Score	Name Date of birth		
Notes • You may photocopy this • CES coding must be correferring to a video film	mpleted by		s performar	nce.	Age Gender Today's dat Diagnosis	☐ Male ☐	Female
Score summary					_	-	
Error type Step omission Anticipation/omission Perseveration Reversal Substitution Gesture Spatial estimation Tool/implement omission Action addition Quality	☐ /5 ☐ /7 ☐ /5 ☐ /5 ☐ /4	f errors Coffee /3 /2 /2 /1 /4 /3 /3	Present /7	Lunchbox /12 /11 /7 /4 /10 /5 /3 /3	Schoolbag /8 /6 /1 /3	Total /35 x 100 = /33 x 100 = /16 x 100 = /17 x 100 = /27 x 100 = /16 x 100 = /16 x 100 = /10 x 100 = /10 x 100 = /10 total = /10 total =	Standardized Error Rate
Error definitions							
Step omission This category refers mostly to isolated step omissions that come at the end of sequence or when a longer sequence is omitted. In the latter case (e.g., omission of an entire subtask), multiple step omissions are coded. Anticipation/omission This category is used mostly for omissions that come in the middle of a strong sequence, where an upcoming step is performed in advance of an intervening one. The error stands whether or not the omitted step is eventually performed. Perseveration Performs an act for an extended period of time (e.g., stirring); duplicates a step or materials involved (e.g., two slices of bread for toast task); iterates repetitively (e.g., taping package). Reversal				Uses correct object but with wrong gesture; mis-orients object relative to the hand or to another (reference) object. Spatial estimation Grossly mis-estimates the quantity of material needed to cover, wrap, etc. Tool/implement omission Performs action without tool/implement. Action addition Performs an action not readily interpretable as a step in the task or as one of the other error categories (e.g., object substitution). Includes utilization behavior (both typical and atypical object use) and off-task behaviors which interrupt the flow of the task. (Note: 'Other task' behaviors such as tying shoes, cleaning up, etc are not coded as errors.)			
Performs steps or subtasks in reverse order.					Quality	ed as errors.)	
Substitution						oo little, or inexact	performance.
Substitutes a related objethe target object. Bizarre					.comacii, (or meadet	£

additions, rather than substitutions.

Task 1: Toast and Coffee	Coffee task
	Step Omission Occurrences
Toast task	Coffee: Omit add coffee
Step Omission Occurrence	Sugar: Omit add sugar
Toast bread: Omit remove bread slice	Cream: Omit add cream
Omit put bread into toaster	Anticipation/omission
Omit turn toaster on	Grinds: Add grinds without open coffee jar
Apply butter: Omit apply butter	Stir mug without add grinds
Apply jelly/jam: Omit apply jelly	
Anticipation/omission	Perseveration
Toast bread: Attempt bread out without open bread bag	Coffee: Add grinds perseveratively
Toaster on without bread in	Stir perseveratively
Apply butter: Attempt butter on without open dish	Reversal
Butter on without toast bread	Coffee: Stir mug, then add grinds
Apply jelly/jam: Attempt jelly on without open jar	Substitution
Jelly on without butter on	Coffee: Coffee into (sugar bowl, pitcher/jug, toast) (t=mug)
Jelly on without toast bread	Stir mug with knife (t=spoon)
Perseveration	Sugar: Sugar into (sugar bowl, pitcher/jug, toast) (t=mug)
	Cream/milk: Cream into (sugar bowl, pitcher/jug, toast) (t=mug)
Toast bread: Extract more than one piece of bread	Gesture
Toast more than 1 slice of bread	Coffee: Pour from spoon prematurely (before reaching mug)
Operate toaster repeatedly	Cream/milk: Pour from side, rather than spout, of pitcher
Apply butter: Apply butter perseveratively	Pour from pitcher prematurely (before reaching mug)
Apply jelly/jam: Apply jelly perseveratively	
Reversal	Tool/implement omission
Toast bread: Toaster on, then bread in	Coffee: Pour grinds from jar
Bread out, then toaster on	Coffee: Stir mug with finger
Apply butter: Apply butter, then toast bread	Sugar: Pour sugar from jar
Apply jelly/jam: Apply jelly, then butter	Action addition
Apply jelly, then toast bread	
Substitution	
Apply butter:Butter into mug (target=toast)	
Spread butter with spoon (t=knife)	
Apply jelly/jam: Jelly into mug (t=toast)	0 14 (1)
Spread jelly with spoon (t=knife)	Quality (examples)
Gesture	Too much coffee (> 2 spoons)
Apply butter: Grasp knife incorrectly	Too much sugar (> 4 spoons)
Mis-orient knife with respect to butter/bread/hand	Too much cream/milk (overflows)
Apply jelly/jam: Grasp knife incorrectly	
Mis-orient knife with respect to jelly/jam/bread/hand	
Tool/implement omission	
Apply butter: Apply butter with finger	
Apply jelly/jam: Apply jelly with finger	Task 2: Present
Pour jelly	Present task
Action addition	Step Omission Occurrences
	Prepare box: Omit put gift into box
	Omit close box lid
	Wrap present: Omit cut wrapping paper
	Omit apply paper around box
0 11	Omit tape seam
Quality	Add bow: Omit remove bow backing
	Omit apply bow
	Anticipation/omission
	Prepare box: Close flaps without gift into box
	Close box lid without inserting flaps
	Wrap present: Paper around box without closing lid
	Tape paper without tear tape
	Apply bow without remove backing
	Apply bow without apply paper around box
	Apply bow without tape seam

Perseveration		Anticipation/omission	
Wrap present: Apply paper perseveratively		Wrap & pack cookies/biscuits: Pack without wrap	
Apply tape perseveratively		Make sandwich: Extract bread without open bread bag	
Reversal		Attempt knife into jar/butter tub without open jar/tub	
Prepare box: Close flap, then gift into box		Close sandwich without apply bologna/cheese slices	Ш
Close lid, then insert flaps		Wrap & pack sandwich: Pack without wrap sandwich	
Wrap present: Cut paper, then unroll		Fill thermos: Attempt to pour juice without open juice jar	Щ
Tape paper, then tear tape		Seal & pack thermos: Seal thermos with lid without fill thermo	s 🖳
Add bow: Back off bow, then bow out of bag		Apply thermos cap without apply lid	
Bow on paper or box, then wrap gift		Pack thermos without fill thermos (no lids on)	
Substitution		Pack thermos without apply cap	Щ
Wrap present: Wrap with tissue paper (t=wrapping paper)		Close lunchbox: Close lunchbox prematurely	
Seal paper seam with bow (t=tape)		Perseveration	
Wrap with tissue paper; paper bag (t=wrapping paper)		Wrap & pack cookies/biscuits: Tear foil perseveratively (for	
Seal paper seam with bow; el. tape, staples (t=tape)		cookies/biscuits)	
Gift into paper bag (t=box)		Extract cookies/biscuits perseveratively	Щ
Cut paper with snippers (t=scissiors)		Pack cookies/biscuits perseveratively	Ш
Gesture		Make sandwich: Extract bread from bag perseveratively	Щ
Wrap present: Grasp scissors incorrectly		Close/fold sandwich perseveratively	
Misorient scissors with respect to paper/hand/body		Wrap & pack sandwich: Tear foil perseveratively (for	
Misorient paper with respect to box		sandwich)	
Add bow: Lick bow after removing bow back		Wrap sandwich perseveratively	
		Reversal	
Spatial estimation		Wrap & pack cookies/biscuits: Cookies/biscuits on foil	
Wrap present: Paper too small		before tear foil	
Tool/implement omission		Pack cookies/biscuits before wrap (wrap in lunchbox)	
Wrap present: Rip paper (no scissors used)		Sandwich on foil before tear foil	
Action addition		Pack sandwich before wrap sandwich (wrap in lunchbox	:) 🔲
e.g. Fold wrapping paper		Substitution	
Inappropriate use of bow		Wrap & pack cookies/biscuits: into paper towel (t=foil)	
Put wrapped gift into box		Cookies/biscuits into lunchbox lid (t=lunchbox interior)
		Make sandwich: Wrong lid onto mustard jar/butter tub	
		Wrap & pack sandwich: Wrap sandwich in paper towel (t=foil	.)
		Pack sandwich into lunchbox lid (t=lunchbox interior)	
		Fill thermos: Pour juice into thermos cup (t=thermos)	. Ц
Quality (examples)		Seal & pack thermos: Put wrong lid on thermos	Щ
Close box with tissue paper/gift protruding		Put wrong lid onto sealed thermos (t=cap)	
Cut too big a piece of paper		Pack juice bottle into lunchbox (t=thermos)	
Highly inept wrap		Pack thermos into lunchbox lid (t=lunchbox interior)	
		Gesture	
		Make sandwich: Turn mustard cap back and forth to	
	Ħ	seal	
	П	Grasp knife incorrectly	
		Orient knife incorrectly with respect to body or bread	
Task 3: Lunchbox and Schoolbag		Seal & pack thermos: Place lid with press rather than screw	
Lunchbox task		motion	
	oncos	Turn thermos lid back and forth to seal	
Step Omission Occurr	ences	Spatial estimation	
Wrap & pack cookies/biscuits: Omit use cookies/biscuits Omit wrap cookies/biscuits		Wrap & pack cookies/biscuits: Foil too small	
Omit pack cookies/biscuits		Wrap & pack sandwich: Foil too small for sandwich	
Make sandwich: Omit put bologna/cheese slices on bread		Packing: Force lunchbox closed (items sticking up)	
Omit close/fold sandwich		Tool/implement omission	
Wrap & pack sandwich: Omit wrap sandwich	Ħ	Make sandwich: Dip bread into mustard jar/butter tub	
Omit pack sandwich		Pour/spread mustard/butter onto bread	
Fill thermos: Omit fill thermos	Ħ	Use finger with mustard/butter	
Seal & pack thermos: Omit seal with lid		Action addition (examples)	
Omit seal with cap		Flip bologna/cheese slice with knife	
Omit pack thermos	П	Eat bologna/cheese slices	
Close lunchbox: Omit close lunchbox		Put juice bottle in lunchbox lid	

Wrap cookies/biscuits with sandwich	Action addition (example)
Fold and crumple paper towel	Pack lunchbox in schoolbag
Total and crampic paper tower	
	0. 11.
Quality	Quality
e.g. Too many cookies/biscuits (>8); not perseverative	
Inadequate wrap of cookies/biscuits	
Too much mustard/butter (grossly excessive)	
Too many bologna/cheese slices (> six slices)	
Inadequate wrap of sandwich	
Too much juice (overflows)	
Schoolbag task	
Step Omission Occurre	ences
Binder: Omit insert paper	
Omit pack binder	
Pencil case: Omit fill pencil case	
Omit pack pencil case	
Markers etc.: Omit pack markers	
Omit pack all of following: protractor, pencil sharpener,	
eraser, unpacked pens, pencils, ruler	
Close: Omit zip school bag	
Omit zip school bag pocket (required only if filled)	
Anticipation/omission	
Binder: Insert paper without open rings	
Close rings without insert paper	
Pack without close rings	
Pack without insert paper	
Pencil case: Close pencil case without fill pencil case	
Pack pencil case without close pencil case	
Reversal	
Pencil case: Pack pencil case, then zip closed	
Substitution	
Binder: Pack paper into lunchbox, pencil case, or marker	
case or drawer (t=binder or schoolbag)	
Pencil case: Pack pencils into lunchbox, binder pocket or	
marker case, or drawer (t=pencil case)	
Markers: Pack markers into LB or binder pocket or drawer	
(t=marker case)	