

Canterbury Research and Theses Environment

Canterbury Christ Church University's repository of research outputs

http://create.canterbury.ac.uk

Please cite this publication as follows:

Patton, S. and Hutton, E. (2017) Exploring the participation of children with Down Syndrome in Handwriting Without Tears®. Journal of Occupational Therapy, Schools, & Early Intervention, 10 (2). pp. 171-184. ISSN 1941-1243.

Link to official URL (if available):

http://dx.doi.org/10.1080/19411243.2017.1292485

This version is made available in accordance with publishers' policies. All material made available by CReaTE is protected by intellectual property law, including copyright law. Any use made of the contents should comply with the relevant law.

Contact: create.library@canterbury.ac.uk



Table 1: Teacher and Parent Report of Facilitators and Barriers to engagement in HWT® activities

Facilitators							
Variety of hands on materials	"The variety of materials/approaches allowed much more involvement with prewriting/writing activities than would have been tolerated by the child otherwise." [Teacher] "The variety of materials helped to keep [the child] focusedas Veronica had been so indifferent to how she wrote" [Teacher] "even if they couldn't write they could put say the wooden pieces together they could play around with that to get it right- there are 3 things before they actually put the pencil on the page- she [the child] loved that- the routine of doing 3 different things" [Parent]						
Perception of HWT® as Fun	"Participant F:so we started the programme, he loved it and it was great fun and even though he was being taught to write- he just thought it was all great fun and he took to it great" [Parent] "Participant B: I think too that the children too were excited by the box of stuff and having the pieces" [Teacher]						
Group Intervention	"Participant B: I have to say now that my child enjoyed it and he enjoyed the two people in his group with him." [Parent] "Participant F:in this programme it built their own confidence – it's near enough so let's have a look and the smiles on their faces every week" [Parent]						
Barriers							
Fluctuation in child mood	"whereas if he wasn't in the humour you would say – right - you did this today in school and he would be doing it again tomorrow" [Parent]						
Child tiredness	"but some days he would come home and he was too tired to do three sets of homework even though it was only three bits" [Parent] " if we did it in school the parents found it quite difficult to get him to do anything with it at home – he was very tired and his stamina was very low" [Teacher]						
Lack of time	"difficult to find time at home as have young children there" [Parent] "Many factors with our schedule especially towards the end of the school year" [Teacher]						

Table 2:
Level 1: Participation in HWT® tasks during Group Intervention

HWT® task	Const	ructing	Mode	1	Build	ling	Draw	ing	Lette	er	Draw	ing	Draw	ring
	Mat N	I an	action	is to	letter	on	on ma	agnetic	on s	late	shape	es on	letter	on
Level 1			songs		mat		board	l			papei	•	pape	ŗ
(N=28)	(n=28)		(n=28)		(n=28)		(n=26)*		(n=17)**		(n=28)		(n=24)***	
Time (T)	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Engagement														
Most of time	22	24	17	23	23	24	18	21	15	15	18	24	21	19
Some of time	5	3	10	4	4	4	7	5	2	2	10	4	3	5
None of time	1	1	1	1	1	0	1	0	0	0	0	0	0	0
Interest														
Most of time	22	23	18	21	15	24	18	18	14	14	19	23	16	18
Some of time	5	4	10	6	12	4	8	8	3	3	9	5	8	6
None of time	1	1	0	1	1	0	0	0	0	0	0	0	0	0
Stay on task														
Most of time	10	20	11	17	16	21	13	14	9	9	17	20	11	10
Some of time	17	7	15	9	11	7	12	12	8	8	11	8	13	14
None of time	1	1	2	2	1	0	1	0	0	0	0	0	0	0

Note: *, **, ***, tasks which were not applicable to all children in level 1

Table 3:
Level 2: Participation in HWT® tasks during Group Intervention

HWT® task	Building	g letter on mat	Drawing chalkbo	g letters on	Letters block or		Letters between Lines			
Level 2			Charkoo	Chairbualu		block of boxes		Emes		
(N=12) Time (T)	(n=12)		(n=12)		(n=10)*		(n=9)*			
	T1	T2	T1	T2	T1	T2	T1	T2		
	n	n	n	n	n	n	n	n		
Engagement										
Most of time	11	11	10	11	8	8	8	7		
Some of time	1	1	1	1	2	2	1	1		
None of time	0	0	1	0	0	0	0	0		
Interest										
Most of time	12	11	7	8	6	6	6	6		
Some of time	1	2	5	5	5	5	4	4		
None of time	0	0	1	0	0	0	0	0		
Staying on task										
Most of time	11	11	7	6	6	4	6	5		
Some of time	2	2	5	7	5	7	4	4		
None of time	0	0	1	0	0	0	0	0		

Note: *, **, tasks which were not applicable to all children in level 2