

Prompting Fact Sheet

Brief Description

Prompting (PP) procedures include any help given to learners that assist them in using a specific skill. Verbal, gestural, or physical assistance is given to learners to assist them in acquiring or engaging in a targeted behavior or skill. Prompts are generally given by an adult or peer before or as a learner attempts to use a skill. These procedures are often used in conjunction with other evidence-based practices including time delay and reinforcement or are part of protocols for the use of other evidence-based practices such as pivotal response training, discrete trial teaching, and video modeling. Thus, prompting procedures are considered foundational to the use of many other evidence-based practices.

Qualifying Evidence

PP meets evidence-based criteria with 1 group design and 32 single case design studies.

Ages

According to the evidence-based studies, this intervention has been effective for toddlers (0-2 years) to young adults (19-22 years) with ASD.

Outcomes

PP can be used effectively to address social, communication, behavior, joint attention, play, school-readiness, academic, motor, adaptive, and vocational skills.

Research Studies Providing Evidence

- Akmanoglu, N., & Batu, S. (2004). Teaching pointing to numerals to individuals with autism using simultaneous prompting. *Education and Training in Developmental Disabilities, 39*(4), 326-336.
- Anderson, J., & Le, D. D. (2011). Abatement of intractable vocal stereotypy using an overcorrection procedure. *Behavioral Interventions, 26*(2), 134-146. doi: 10.1002/bin.326
- Barton, E. E., & Wolery, M. (2010). Training teachers to promote pretend play in young children with disabilities. *Exceptional Children, 77*(1), 85-106.
- Batchelder, A., McLaughlin, T. F., Weber, K. P., Derby, K. M., & Gow, T. (2009). The effects of hand-over-hand and a dot-to-dot tracing procedure on teaching an autistic student to write his name. *Journal of Developmental and Physical Disabilities, 21*(2), 131-138. doi: 10.1007/s10882-009-9131-2
- Birkan, B., McClannahan, L. E., & Krantz, P. J. (2007). Effects of superimposition and background fading on the sight-word reading of a boy with autism. *Research in Autism Spectrum Disorders, 1*(2), 117-125. doi: 10.1016/j.rasd.2006.08.003
- Bouxsein, K. J., Tiger, J. H., & Fisher, W. W. (2008). A comparison of general and specific instructions to promote task engagement and completion by a young man with Asperger syndrome. *Journal of Applied Behavior Analysis, 41*(1), 113-116. doi: 10.1901/jaba.2008.41-113

- Cihak, D. F., & Grim, J. (2008). Teaching students with autism spectrum disorder and moderate intellectual disabilities to use counting-on strategies to enhance independent purchasing skills. *Research in Autism Spectrum Disorders*, 2(4), 716-727.
- Coe, D., Matson, J., Fee, V., Manikam, R., & Linarello, C. (1990). Training nonverbal and verbal play skills to mentally retarded and autistic children. *Journal of Autism and Developmental Disorders*, 20(2), 177-187. doi: 10.1007/BF02284717
- Endicott, K., & Higbee, T. S. (2007). Contriving motivating operations to evoke mands for information in preschoolers with autism. *Research in Autism Spectrum Disorders*, 1(3), 210-217. doi: 10.1016/rasd.2006.10.003
- Fischer, J. L., Howard, J. S., Sparkman, C. R., & Moore, A. G. (2010). Establishing generalized syntactical responding in young children with autism. *Research in Autism Spectrum Disorders*, 4(1), 76-88. doi: 10.1016/j.rasd.2009.07.009
- Groskreutz, N. C., Groskreutz, M. P., & Higbee, T. S. (2011). Effects of varied levels of treatment integrity on appropriate toy manipulation in children with autism. *Research in Autism Spectrum Disorders*, 5(4), 1358-1369. doi: 10.1016/j.rasd.2011.01.018
- Hadwin, J., Baron-Cohen, S., Howlin, P., & Hill, K. (1996). Can we teach children with autism to understand emotions, belief, or pretence? *Development and Psychopathology*, 8(2), 345-365. doi: 10.1017/S0954579400007136
- Harris, S. L., Handleman, J. S., & Alessandri, M. (1990). Teaching youths with autism to offer assistance. *Journal of Applied Behavior Analysis*, 23(3), 297-305. doi: 10.1901/jaba.1990.23-297
- Ingvarsson, E. T., & Hollobaugh, T. (2011). A comparison of prompting tactics to establish intraverbals in children with autism. *Journal of Applied Behavior Analysis*, 44(3), 659-664. doi: 10.1901/jaba.2011.44-659
- Ingvarsson, E. T., & Le, D. D. (2011). Further evaluation of prompting tactics for establishing intraverbal responding in children with autism. *The Analysis of Verbal Behavior*, 27(1), 75-93.
- Koegel, R. L., Shirotova, L., & Koegel, L. K. (2009). Brief report: Using individualized orienting cues to facilitate first-word acquisition in non-responders with autism. *Journal of Autism and Developmental Disorders*, 39(11), 1587-1592. doi: 10.1007/s10803-009-0765-9
- Leaf, J. B., Sheldon, J. B., & Sherman, J. A. (2010). Comparison of simultaneous prompting and no-no prompting in two-choice discrimination learning with children with autism. *Journal of Applied Behavior Analysis*, 43(2), 215-228. doi: 10.1901/jaba.2010.43-215
- Montgomery, J., Storey, K., Post, M., & Lemley, J. (2011). The use of auditory prompting systems for increasing independent performance of students with autism in employment training. *International Journal of Rehabilitation Research*, 34(4), 330-335. doi: 10.1097/MRR.0b013e32834a8fa8
- Ostryn, C., & Wolfe, P. S. (2011). Teaching children with autism to ask "what's that?" using a picture communication with vocal results. *Infants & Young Children*, 24(2), 174-192. doi: 10.1097/IYC.0b013e31820d95ff
- Reichle, J., Dropik, P. L., Alden-Anderson, E., & Haley, T. (2008). Teaching a young child with autism to request assistance conditionally: A preliminary study. *American Journal of Speech-Language Pathology*, 17(3), 231-240. doi: 10.1044/1058-0360(2008/022)
- Shabani, D. B., Katz, R. C., Wilder, D. A., Beauchamp, K., Taylor, C. R., & Fischer, K. J. (2002). Increasing social initiations in children with autism: Effects of a tactile prompt. *Journal of Applied Behavior Analysis*, 35(1), 79-83. doi: 10.1901/jaba.2002.35-79

- Shillingsburg, M. A., Valentino, A. L., Bowen, C. N., Bradley, D., & Zavatka, D. (2011). Teaching children with autism to request information. *Research in Autism Spectrum Disorders*, 5(1), 670-679. doi: 10.1016/j.rasd.2010.08.004
- Symons, F., & Davis, M. (1994). Instructional conditions and stereotyped behavior: The function of prompts. *Journal of Behavior Therapy and Experimental Psychiatry*, 25(4), 317-324. doi: 10.1016/0005-7916(94)90040-X
- Tarbox, J., Zuckerman, C. K., Bishop, M. R., Olive, M. L., & O'Hara, D. P. (2011). Rule-governed behavior: Teaching a preliminary repertoire of rule-following to children with autism. *The Analysis of Verbal Behavior*, 27(1), 125-139.
- Taylor, B. A., & Hoch, H. (2008). Teaching children with autism to respond to and initiate bids for joint attention. *Journal of Applied Behavior Analysis*, 41(3), 377-391. doi: 10.1901/jaba.2008.41-377
- Thomas, B. R., Lafasakis, M., & Sturmey, P. (2010). The effects of prompting, fading, and differential reinforcement on vocal mands in non-verbal preschool children with autism spectrum disorders. *Behavioral Interventions*, 25(2), 157-168. doi: 10.1002/bin.300
- Twarek, M., Cihon, T., & Eshleman, J. (2010). The effects of fluent levels of Big 6+ 6 skill elements on functional motor skills with children with autism. *Behavioral Interventions*, 25(4), 275-293. doi: 10.1002/bin.317
- Vedora, J., Meunier, L., & Mackay, H. (2009). Teaching intraverbal behavior to children with autism: A comparison of textual and echoic prompts. *The Analysis of Verbal Behavior*, 25(1), 79-86.
- Whalon, K., & Hanline, M. F. (2008). Effects of a reciprocal questioning intervention on the question generation and responding of children with autism spectrum disorder. *Education and Training in Developmental Disabilities*, 43(3), 367-387.
- Williams, G., Donley, C. R., & Keller, J. W. (2000). Teaching children with autism to ask questions about hidden objects. *Journal of Applied Behavior Analysis*, 33(4), 627-630. doi: 10.1901/jaba.2000.33-627
- Yanardag, M., Birkan, B., Yilmaz, İ., Konukman, F. K., Ağbuğa, B., & Lieberman, L. (2011). The effects of least-to-most prompting procedure in teaching basic tennis skills to children with autism. *Kineziologija*, 43(1), 44-55.
- Yi, J. I., Christian, L., Vittimberga, G., & Lowenkron, B. (2006). Generalized negatively reinforced manding in children with autism. *The Analysis of Verbal Behavior*, 22(1), 21-33.
- Yilmaz, I., Konukman, F., Birkan, B., & Yanardag, M. (2010). Effects of most to least prompting on teaching simple progression swimming skill for children with autism. *Education and Training in Autism and Developmental Disabilities*, 45, 440-448.

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