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	Learning Objectives
Define	Participants will define executive functioning and explain how pertinent skills are represented in daily living.
Analyze	Participants will analyze the connection between executive functioning and social-emotional development in order to understand how they are intertwined.
Explore	Participants will explain the core deficits in ADHD and demonstrate how to support foundational growth across environments.
Recognize	Participants will recognize how various stressors impact executive function skills in order to understand the importance of regulation.
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Introduction to Executive Function Skills #CONTROLMESELF SESAME STREET SONGS © 2023 Shkdron

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multistep directions (home and school)

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Inhibitory Control
learned skill
sed to filter thoughts
etermine which impulses to follow

resist environmental temptations

form positive daily habits

pause and consider consequences

selective, sustained attention to chosen priority

(CDCHU, 2011, p. 2; CDCHU, 2014, p. 1)

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possible due to working memory and inhibition
capacity to switch gears
adjust to demands, priorities, perspectives
adapt thoughts based on environment
revise given new information
reconsider current position

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- respond to infant's rhythm and affect
- appropriate, consistent responses provide successful experiences
- parents need to recognize their own signals
- gradually facilitate child's capacity to self-regulate
- co-regulation is a sacred space
- promotes safety through adult's regulated nervous system

(Bernier et al., 2010; Desautels, 2020, p. ix; Shanker, 2016, p. 24)

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EF in Infancy

Begins with Co-

Regulation

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EF in Preschoolers

- major period of growth
- provide support for younger children
- allow independence for older children
- goal: shift away from adult regulation and toward self-regulation
- imaginary play develop rules to guide actions and roles
- hold complex ideas in min
- shape their actions to follow rules
- inhibit impulses that don't fit the "role"
- cooperative play emerges
- regulate each other's behavior

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(CDCHU, 2014, pp. 6-7)



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(Holmstrand, 2016)





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self-Regulation & Sel

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(Minihane et al., 2015)



Provide the second se

Remain in a State of Wonder

- "I wonder how..."
- "I'm thinking of..."
- "My idea is..."
- "I have a different way..."
- "What else can we do?"
- "Let's see how we can..."

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References

Bernier, A., Carlson, S.M., & Whipple, N. (2010). From external regulation to self-regulation: Early parenting precursors of young children's executive functioning. *Child Development*, *81*(1), 326–339. https://doi.org/10.1111/j.1467-8624.2009.01397.x

Blakey, E., Visser, I., & Carroll, D.J. (2016). Different executive functions support different kinds of cognitive flexibility: Evidence from 2-, 3-, and 4-year-olds. *Child Development 87(2)*, 513–526. doi: 10.1111/cdev.12468

Center on the Developing Child at Harvard University. (2011). Building the brain's "air traffic control" system: How early experiences shape the development of executive function: Working paper No. 11. https://developingchild.harvard.edu/resources/building-the-brains-air-traffic-control-system-how-early-experiences-shape-the-development-of-executive-function/

Center on the Developing Child at Harvard University. (2014). *Enhancing and practicing executive function skills with children from infancy to adolescence.*

https://developingchild.harvard.edu/resources/activities-guide-enhancing-and-practicingexecutive-function-skills-with-children-from-infancy-to-adolescence/

Desautels, L.L. (2020). *Connections over compliance: Rewiring our perceptions of discipline*. Wyatt-MacKenzie Publishing.

References

Doebel, S. (2020). Rethinking executive function and its development. *Perspectives on Psychological Science*, *15(4)*, 942–956. <u>https://doi.org/10.1177/1745691620904771</u>

Greene, R. W. (2014). The explosive child: A new approach for understanding and parenting easily frustrated and chronically inflexible children. Harper Collins.

Hallowell, E.M. & Ratey, J.J. (2021). *ADHD 2.0: New science and essential strategies for thriving with distraction – from childhood through adulthood.* Ballantine Books.

Hamlin, T. (2016). *Autism and the stress effect: A 4-step lifestyle approach to transform your child's health, happiness and vitality.* Jessica Kingsley Publishers, LTD.

Holmes, C.J., Kim-Spoon, J., & Deater-Deckard, K. (2016). Linking executive function and peer problems from early childhood through middle adolescence. *Journal of Abnormal Child Psychology*, *44*(1), 31-42. doi: 10.1007/s10802-015-0044-5

Holmstrand, K. (2016, March 8). *The science of adult capabilities*. Center on the Developing Child at Harvard University.

https://developingchild.harvard.edu/science/deep-dives/adult-capabilities/

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References

Lloyd, K., Sanborn, A., Leslie, D., & Lewandowsky, S. (2019). Why higher working memory capacity may help you learn: Sampling, search, and degrees of approximation. *Cognitive Science*, *43*. doi: 10.1111/cogs.12805

Logue, S.F. & Gould, T.J. (2014). The neural and genetic basis of executive function: Attention, cognitive flexibility, and response inhibition. *Pharmacology, Biochemistry and Behavior*, *123*, 45–54. <u>http://dx.doi.org/10.1016/j.pbb.2013.08.007</u>

Luderer, M., Sick, C., Kaplan-Wickel, N., Reinhard, I., Richter, A., Kiefer, F., & Weber, T. (2020). Prevalence estimates of ADHD in a sample of inpatients with alcohol dependence. *Journal of Attention Disorders*, *24*(*14*), 1955-2114.

https://doi.org/10.1177/1087054717750272

Maguire, C. (2019). Why will no one play with me? The play better plan to help children of all ages make friends and thrive. Grand Central Publishing.

References

Minihane, A.M., Vinoy, S., Russell, W.R., Baka, A., Roche, H.M., Tuohy, K.M., Teeling, J.L., Blaak, E.E., Fenech, M., Vauzour, D., McArdle, H.J., Kremer, B.H.A., Sterkman, L., Vafeiadou, K., Benedetti, M.M., Williams, C.M., & Calder, P.C. (2015). Low grade inflammation, diet composition and health: Current research evidence and its translation. *British Journal of Nutrition*, *114*, 999–1012. doi:10.1017/S0007114515002093

Murray, D.W., Rosanbalm, K., Christopoulos, C., & Hamoudi, A. (2015). *Self-regulation and toxic stress: foundations for understanding self-regulation from an applied developmental perspective*. Office of Planning, Research and Evaluation, Center for Child and Family Policy. <u>https://www.acf.hhs.gov/opre</u>

Nigg, J.T. (2017). Annual research review: On the relations among self-regulation, selfcontrol, executive functioning, effortful control, cognitive control, impulsivity, risk-taking, and inhibition for developmental psychopathology. *Journal of Child Psychology and Psychiatry* 58(4), 361–383. doi: 10.1111/jcpp.12675

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References

Rouse, M.H. (2016). *Neuroanatomy for speech-language pathology and audiology*. Jones & Bartlett Learning, LLC.

Sesame Street. [Sesame Street]. (2013, August 5). *Sesame street: Me want it (but me wait)* [Video]. YouTube. <u>https://www.youtube.com/watch?v=9PnbKL3wuH4</u>

Shanker, S. (2016). Self-reg: How to help your child (and you) break the stress cycle and successfully engage with life. Penguin Random House.

Sumpter, T. (2021). *The seeds of learning: A cognitive processing model for speech, language, literacy, and executive functioning.* ELH Publishing, LLC.

Zelazo, P.D. (2015). Executive function: Reflection, iterative reprocessing, complexity, and the developing brain. *Developmental Review*, *38*, 55–68. http://dx.doi.org/10.1016/j.dr.2015.07.001

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