



Resources within Reason

STEM Resources for Young Children with Disabilities

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All young children are born ready and able to engage in early science, technology, engineering, and math (STEM) learning opportunities. Young children are naturally interested in many STEM-related concepts such as exploration, cause-effect, and problem-solving. Facilitating STEM learning early may improve long term outcomes for children and their families. These resources to help early educators, families, and specialists target early STEM learning opportunities for young children with and without disabilities.

STEM Learning Brief

STEM learning is important, yet not all children have equal access to STEM learning opportunities. This discrepancy is especially evident for children with disabilities. This brief report provides an overview of the importance of STEM education for all young children.

<http://cadrek12.org/sites/default/files/DRK12-Early-STEM-Learning-Brief.pdf>

Let's Talk about STEM Video Series

In order to do something or integrate a new learning target at school or home, video examples can be helpful. This video series created by Zero to Three is intended to help parents and caregivers facilitate early STEM learning experiences in daily activities and play. These resources are also available in Spanish.

<https://www.zerotothree.org/resources/series/let-s-talk-about-stem-video-series>

Little Discoverers by Sesame Street

This STEM-focused website, created by Sesame Street, includes a number of practical tools for addressing early STEM learning for young children. There are games, videos, and art activities for educators, specialists, and families to use with their children. Family and educator newsletters with resources and strategies are also available.

<https://www.sesamestreet.org/toolkits/stem>

Let's Talk, Read, and Sing About STEM

This tip sheet offers resources for families with young children and professionals. It includes specific tips for infants, toddlers, and preschoolers, as well as ideas for supporting children who are dual language learners.

<https://www2.ed.gov/about/inits/ed/earlylearning/talk-read-sing/stem-toolkit-families.pdf>

STEM Innovation for Inclusion in Early Education Center (STEMI²E²)

The U.S. Department of Education funded this center to develop the knowledge base and provide technical assistance focused on engaging all children, especially those with disabilities, in early STEM learning opportunities. Researchers at STEMI²E² are working on developing learning trajectories focused on science, technology, engineering, and STEM, and developing recommended practices for engaging all children in early STEM learning. The STEMI²E² team is also developing resources to support families and practitioners including a storybook conversations series, STEM in daily routines series, video examples, and tele-coaching supports. Join the STEMI²E² early learning community to connect with colleagues who are interested in early STEM learning!

<https://stemie.fpg.unc.edu/> (website)

<https://stem4ec.ning.com/blog> (learning community)

PEEP and the Big Wild World

Funded by the National Science Foundation and created by WGBH, 9 Story Entertainment, TV Ontario, and American Public Television, PEEP began as an animated video series to help young children learn about science and math. PEEP now includes videos, games, and activities for children as well as resources for families and educators to develop STEM learning activities. The DIAGRAM Center and WGBH's National Center for Accessible Media have also developed accessible PEEP activities.

<http://www.peepandthebigwideworld.com/en/kids/> (kids)

<http://www.peepandthebigwideworld.com/en/parents/> (families)

<http://www.peepandthebigwideworld.com/en/educators/> (educators)

<http://diagramcenter.org/peep.html> (accessible activities)

Resources within Reason is a free, one-way listserv provided by the Division for Early Childhood (DEC). All resources are evidence-based, readily available and free.

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