EF + STEM Resources

As part of the EF + STEM project at TERC, we’ve gathered some recommended resources for learning about Executive Function (EF) as it relates to STEM education. This list will grow and change.

Introduction to Executive Function

InBrief: Executive Function: Skills for Life and Learning

A five-minute video with overview of Executive Function and Self-Regulation from Harvard Center for the Developing Child.


An overview of EF from a psychological perspective.

EF + STEM


An article the role of EF in scientific hypothesis making in early childhood learning.
**EF + Learning**


Lynn Meltzer’s edited book is a great collection of seminal papers on EF in education, but unfortunately, it is not available online.

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**CIRCL Primer: Neuroscience and Education.**
Contributors: Judi Fusco, Jodi Asbell-Clarke, & Bernadette Sibuma

The Center for Innovative Research in Cyberlearning (CIRCL) pulled together ideas and resources from current NSF educators on neuroscience and executive function.

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A learning science article that refers to the biological role of EF in Conceptual Change.

**EF Interventions**


A strong body of work on interventions for EF for young children.

**EF by Specific Age Groups**

Recommendations being sought.

**EF in the Workforce**

Recommendations being sought.

**EF in Everyday Life**

Recommendations being sought.