

# Science X Design Resources

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This document includes the materials and resources to guide your team through your Science X Design journey.

## Introduction

- SxD Facilitator Guide (download from the module)
- SxD Workbook (download from the module)
- SxD Resources list (this document)

## Unit 1: Three Science-Informed Principles to Improve Outcomes in Early Childhood Development

- [Young Children Develop in an Environment of Relationships](#)
- [How Early Childhood Experiences Affect Lifelong Health and Learning](#)
- [The Timing and Quality of Early Experiences Combine to Shape Brain Architecture](#)
- [Place Matters: The Environment We Create Shapes the Foundations of Healthy Development](#)
- [Three principles to improve outcomes for children](#)
- [Three Principles to Improve Outcomes for Children and Families, Paper](#)
- [Toxic stress derails healthy development](#)
- [Guide to Toxic Stress](#)
- [Guide to Resilience](#)
- [Serve and return interactions shapes brain circuitry](#)
- [How to practice serve and return](#)
- [Guide to Serve and Return](#)
- [Inbrief: Executive Function](#)
- [Guide to Executive Function](#)

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## Unit 2: Applying Three Science-Informed Principles to Your Program

- [Three Principles to Improve Outcomes for Children and Families paper](#)

## Unit 3: Engaging with Key Involved Parties

- [IDEO.org](#)
- [Luma of 36 design methods](#)
- [Social Identity Map: A Reflexivity Tool for Practicing Explicit Positionality in Critical Qualitative Research - Danielle Jacobson, Nida Mustafa, 2019](#)
- [Everyday power dynamics and hierarchies in qualitative research: The role of humour in the field - Maarja Kaaristo, 2022](#)
- [Establishing Cultural Integrity in Qualitative Research: Reflections From a Cross-Cultural Study - Rinchen Pelzang, Alison M. Hutchinson, 2018](#)

## Unit 4: Identifying Your Design Opportunities

- [“How might we...” Questions](#)
- [Activities Guide: Enhancing and Practicing Executive Function Skills with Children from Infancy to Adolescence](#)
- [Impact/difficulty matrix](#)
- [IDEAS Impact Framework Toolkit](#)
- [Promise Studio Early Childhood Startup](#)
- [Applying Human-Centered Design to Human Services: Pilot Study Findings](#)