

TEACHER PROFESSIONAL DEVELOPMENT WORKSHOPS

Who We Are

STEMSpark designs fun, hands-on learning experiences for young children, families, and teachers that spark curiosity, imagination and a love of STEM in the world.



STEMSpark designs and facilitates high quality professional development workshops to support the continuing growth and development of early childhood educators. Our workshops model best practices through interactive conversation and encourage participation through hands-on, minds-on learning.

Through our workshops, educators will:

- ✓ More confidently support STEM skill development in their classroom
- ✓ Actively incorporate classroom-ready STEM activities
- ✓ Play and learn as we investigate STEM together

Certificates of Attendance will be provided for participants seeking CEUs.

Workshop Descriptions

Workshops are flexibly designed to meet the needs of Infant, Toddler, Pre-K and Early Elementary teachers. Activities are developmentally appropriate and easy to implement!



Featured Workshops

- **90 minute, half day, full day** workshop experiences
- **Hands-on activities** and science topics that focus on STEM skill development
- **Classroom-ready** activities with simple, everyday materials



Design Your Own Workshop!

Interested in a customized workshop? STEMSpark designs professional development training to meet your needs! Email info@stem-spark.com to set up an informational meeting with one of our expert team members.



Featured Workshops



Inspiring Little Scientists

Infant, Toddler, Pre-K, Early Elementary Teachers

Young children are natural scientists! In this interactive workshop we explore what science skills look like in early learners, connect science identity research to practice and share fresh hands-on activities that can promote positive relationships with science in your center or classroom.

Activity options for this workshop

- *Capillary Action: Butterflies, Leaves, Snowflakes, Flowers*
- *Foil Boat Engineering*
- *Kitchen Chemistry*
- *Pipette Painting*
- *Secret Messages*
- *Sinking & Floating*
- *Slime Chemistry*



Animal Engineers: STEM Skills through Science & Nature

Infant, Toddler, Pre-K, Early Elementary Teachers

In this fun workshop teachers will get to play and learn together! Using our observation skills, creativity, and imagination, we will introduce the engineering design process in developmentally appropriate ways to design, build, and test our very own animal homes. This workshop brings together nature education, early engineering, and pretend play.

Activity options for this workshop

- *Beaver Dam Engineering*
- *Bird Nest Engineering*
- *Honeybee Hive Engineering*
- *Spider Web Engineering*



STEM Foundations through Sensory Play

Infant, Toddler, Pre-K, Early Elementary Teachers

Sensory play is an engaging way for young children to practice observational skills! This workshop introduces science-based sensory play through hands-on activities, connects current child development research to practice and shares tips for creating rich sensory science experiences using simple materials.

Activity options for this workshop

- *Animal Senses: Forest Friends*
- *Ice Melt*
- *Mystery Bags Shaving Cream Science*
- *Sinking & Floating*
- *Slime Chemistry*
- *Sound Play*
- *Sponge Painting*



Featured Workshops continued



Fairytale Engineering: Story-inspired Hands-on Design Challenges

Infant, Toddler, Pre-K, Early Elementary Teachers

Stories are a powerful medium for engaging children in STEM thinking. Through this workshop participants will engage in story based engineering activities designed for early learners where they can *build*, *test*, and *try again* in order to reach a goal. Take away innovative ideas for immersing children in play, storytelling and engineering in your classroom.

Activity options for this workshop

- *Rapunzel's Escape: Copter Engineering*
 - *3 Little Pigs: Construction Junction*
 - *Billy Goat's Gruff: Bridge Engineering*
 - *Gingerbread's Escape: Foil Boat Engineering*
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The M in STEM! Creative Connections to Early Math Skills

Infant, Toddler, Pre-K, Early Elementary Teachers

What do dinosaurs, shapes, patterns and liquids have in common? Math! This workshop showcases expertly designed activities that promote STEM thinking and focus on foundational math experiences. We will define early math skills and share strategies for cultivating children's critical thinking and problem solving skills.

Activity options for this workshop

- *Animal Mysteries*
- *Paper Bridge Engineering*
- *Coding Games: Computational Thinking Fun!*
- *Shape, Size, & Scale!*

Workshop Pricing

September 2022 - June 2023

On-Site Workshop	LENGTH	CAPACITY	PROGRAM FEE	TRAVEL FEE*
	90 minutes	20 educators	\$595	\$40
	Half Day (3 hr)	20 educators	\$950	\$40
	Full Day (7 hr)	20 educators	\$1795	\$40

Materials are provided by STEMSpark for the duration of the workshop so participants are able to fully engage in the learning experience.

*Locations further than 30 miles from main office will instead be calculated by the Federal mileage rate

Virtual Workshop	LENGTH	CAPACITY	PROGRAM FEE	TRAVEL FEE
	90 minutes	20 educators	\$575	N/A

For virtual workshops, it is the responsibility of the school or individual participants to provide materials. A simple materials list is provided prior to the scheduled workshop so participants can fully engage in the learning experience.

Design Your Own Workshop

A quote will be provided for customized workshop experiences as pricing may vary.

Contact us to reserve your program today!

Email: info@stem-spark.com

Tel: (215) 883 - 8710

[Online Registration Form](#)



How can we support your early STEM experiences?

Email: info@stem-spark.com with questions or to set up an informational meeting with one of our expert team members.