

ROKENBOK Educational Foundation Curriculum



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ROK Block Adventures

Instructor's Guide

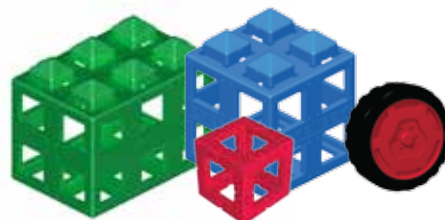
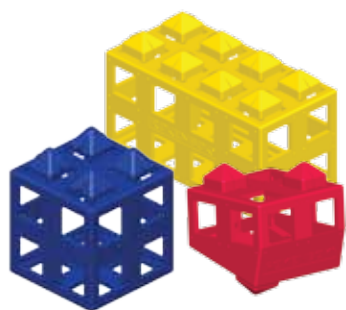














Dear Educator,










This Instructor's Guide is an overview of the ROK Blocks Educational curriculum. It includes an explanation of all the play elements: blocks, play mats, and plan sheets. We also include tips for the instructors to maximize learning, questions to investigate with your students during playtime, and results you can expect your students to achieve through mentored play.

This education curriculum has been thoughtfully designed to engage students' minds, eyes, and fine motor skills as well as boost understanding of core STEM competencies.



Listing of ROK Block Building Parts

	4	Curved Roof, Blue
	2	Box Rack, Red
	2	Box, Green
	16	Corbel, Red
	8	Block, Red
	8	Single Snap Block, Dark Grey
	4	Long Beam, Dark Grey
	4	Short Beam, Dark Grey
	8	Riser, Light Grey
	4	Snap on Trailer Hitch, Red

	10	Hinge Block, Red
	8	Swivel Block, Red
	20	Snap-on Wheel, Red/Black
	28	2x2 ROK Block, Blue
	16	2x3 ROK Block, Green
	22	2x4 ROK Block, Yellow
	36	Wedge ROK Block, Red
	2	Worker, Female
	2	Worker, Male

Better Play Builds Better Learners

A sound preschool curriculum fosters:

- **Confidence**
- **Curiosity**
- **Attentiveness**
- **Persistence**

These important executive functions determine academic readiness and success.



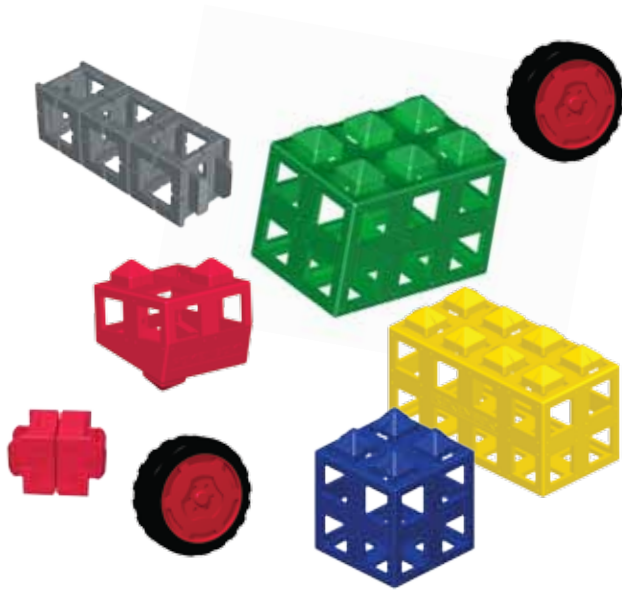
A dynamic play-to learn environment is essential, and ROK Block Adventures provides a complete set of components to create this environment for your students.

Rokenbok Adventure Contents

ROK Blocks

Designed to allow for success within a proximal zone of development while holding the potential for more complex engineering through practice.

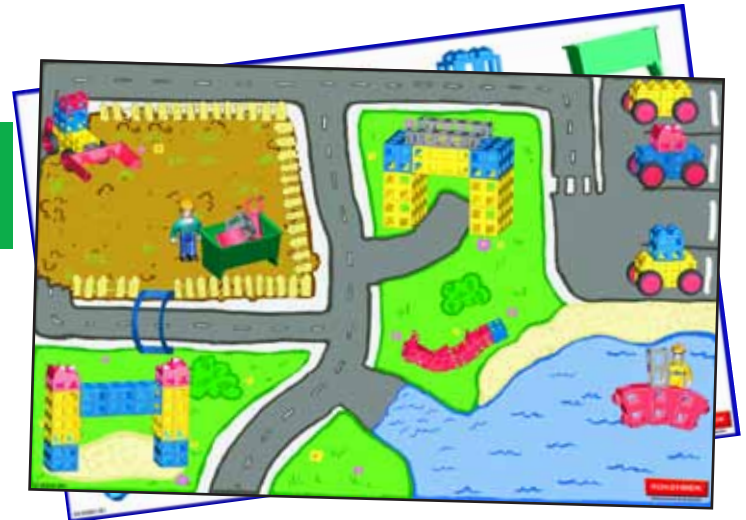
1 Building Set/204 Pieces



Play Mats

The play mats invite discussion and exploration of how the toys fit together.

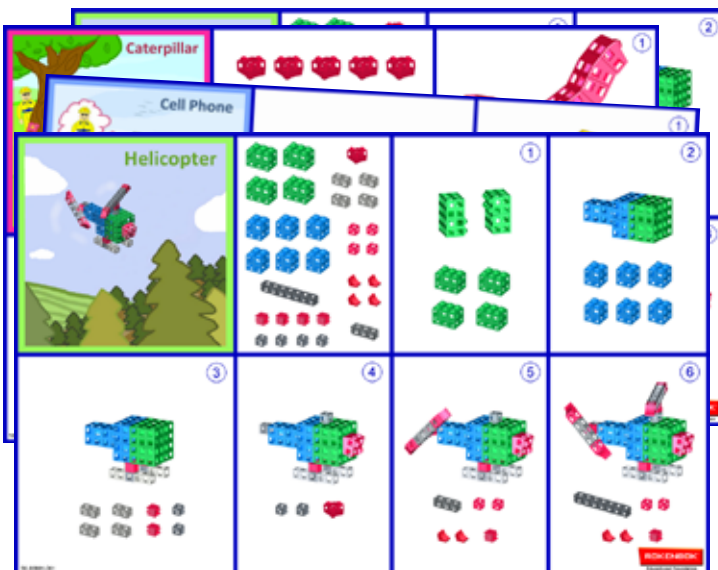
1 Double Sided Mat/2 Unique Games



Plan Sheets

The plan sheets help to build visual literacy, cognitive persistence, and thoughtful revision.

4 Double Sided Sheets/8 Unique Builds



Guided Play is Productive Play

ROK Block Adventures combines advanced construction-toy manipulatives with carefully researched roles and tools for an adult mentor. Play that encourages side-by-side mentoring provides important opportunities to develop early **STEM** (Science, Technology, Engineering and Mathematics) competencies such as:



STEM Competencies:

- The ability to identify, classify and compare spatial relationships and physical properties.
- The ability to analyze, evaluate, and revise.
- The ability to attend to a task through thinking challenges and problem solving.
- The concept of counting and of one to one correspondence.
- The understanding that both text and pictures carry information about the physical world.

As children reach goals their sense of accomplishment motivates them to aspire toward greater challenges. In this way, ROK Blocks are a tool for success.

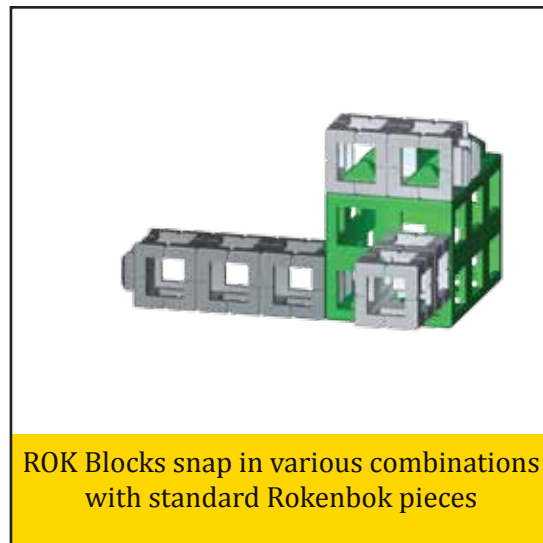
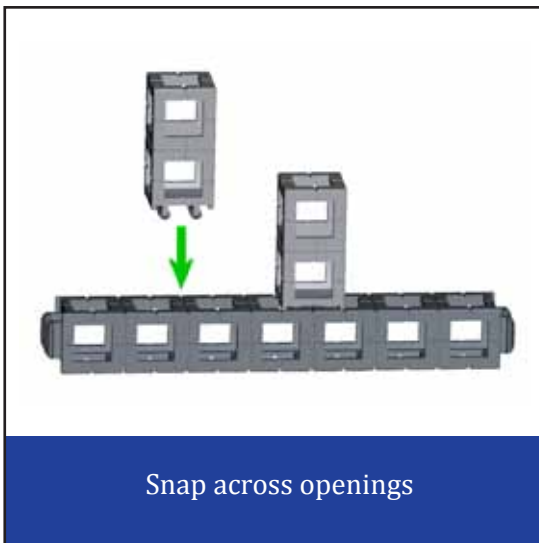
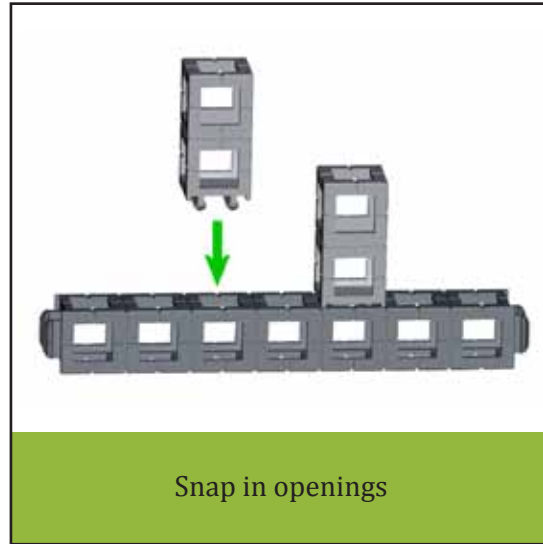
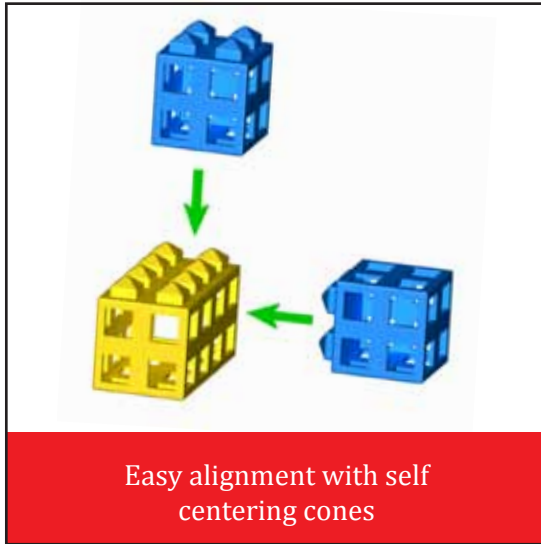


Tip Build side-by-side with your students

Adult and peer mentors allows learners to observe systematic planning and problem solving. Playing and learning together also provides practice using descriptive language and spatial relation terms. Children playing with a mentor learn to use new information to solve problems. Guided play helps to develop persistence and cooperation in young learners.

Get To Know Your Blocks For A Better Learning Fit

ROK Blocks are a better building block because of their unique design. They provide satisfying success for the beginning engineer and offer greater potential for complexity as learners become more competent.

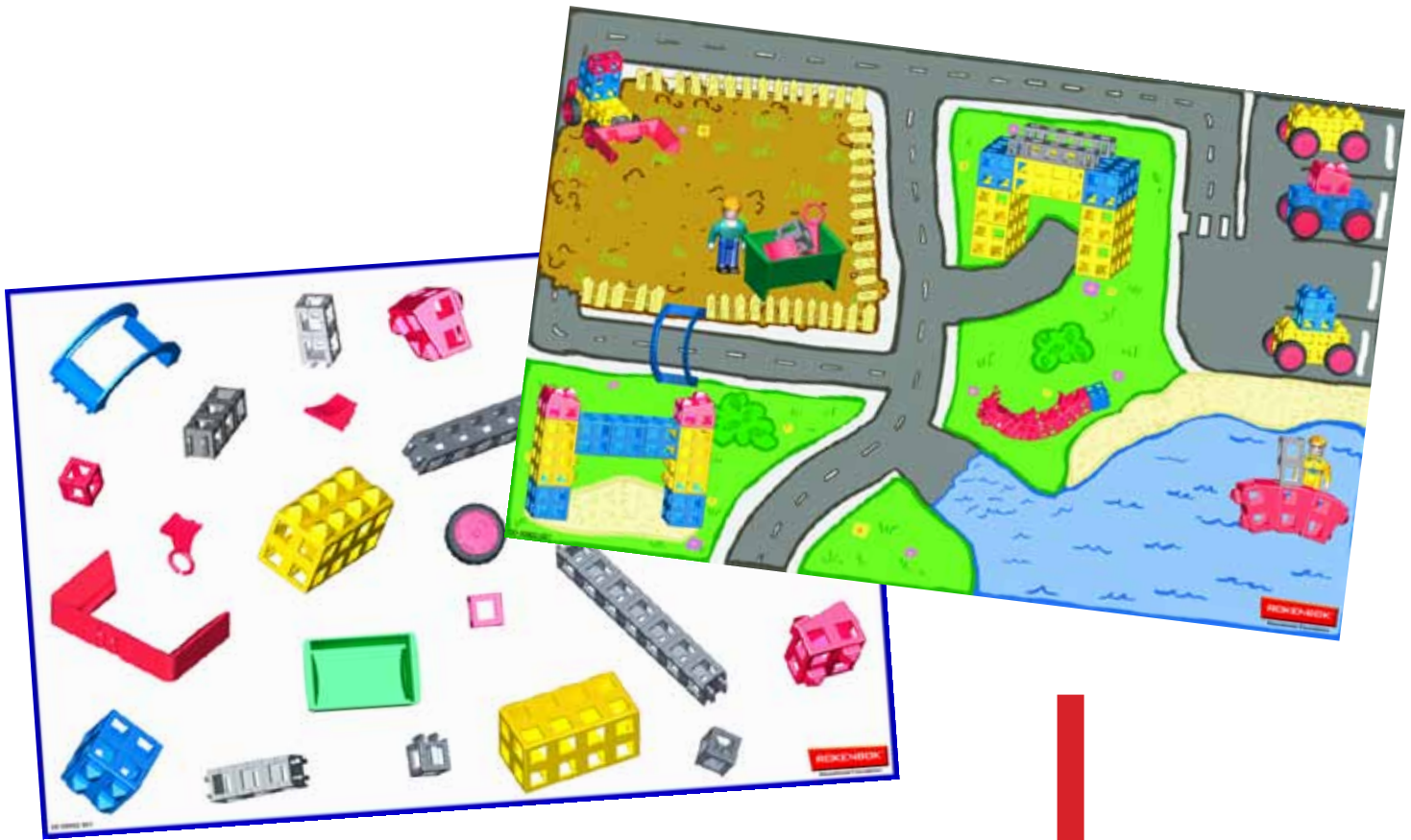


Tip Prior to introducing ROK Blocks, become familiar with the blocks in order to:

- Inspire innovative use
- Promote verbal fluency during play
- Facilitate fine-motor skill development

Grab a Mat And Settle In For Fun

ROK Block Adventures contains two kinds of play mats for an even more dynamic and imaginative play experience.



Matching Game Mat

Features multiple views of the blocks and can be used to practice visual acuity, spatial correspondence and counting.

Imagination Land Mat

Creates a context for imaginative play and inspires builders to recreate the designs pictured or improve them with their own ideas.

Success in school depends upon both textual and conceptual awareness. Relating two dimensional graphical representations to three dimensional objects is a critical literacy for developing school readiness and STEM thinking skills.

Plan For Success

ROK Block Adventures contains four double sided plan sheets. Teachers should help students to visualize the steps required to complete a design by asking students what they see when they look at the plan sheet.

Questions for Students

- How many blocks of each color?
- What is in front, behind, next to, above and below?
- Can you stack your blocks?
- Which block side has cones?
- How many round items do you have?



As children acquire greater visual literacy they will be able to use the plan sheets to practice working independently through a series of steps and challenges.

This type of play will foster the development of descriptive language and the ability to classify and compare relationships using points, lines, planes, and space. Working together with the plan sheets will encourage goal setting and step-by-step problem solving. A student working independently on a plan sheet is demonstrating the understanding that two dimensional images carry information about the physical world.

Play To Learn



Thoughtful guided play with ROK Block Adventures will actively support the development of early STEM learning competencies and the executive functions necessary for academic success.



Rokenbok Education Foundation Research has shown that engaged positive adult support during ROK Block play greatly expands the inherent educational properties of the blocks.

Young engineers who have enjoyed both guided and independent play with ROK Block Adventures will be confident in their ability to:

- Think through a challenge
- Follow visual instructions with multiple steps
- Express concepts of spatial and quantitative relationships



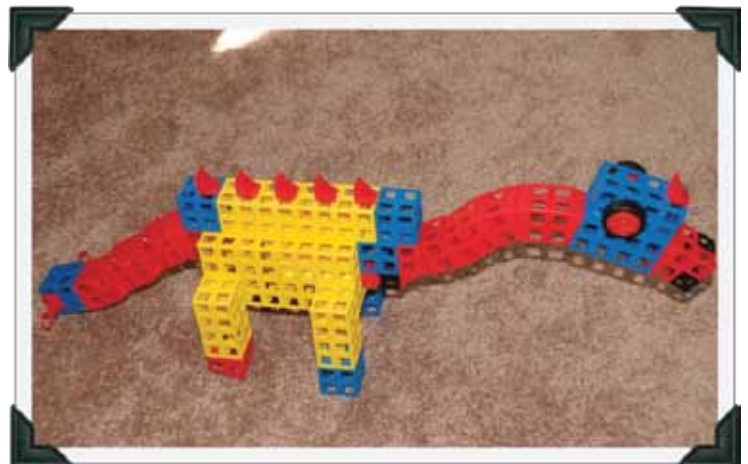
Tip Teachers should build objects of their own design

or preassemble one of the plan sheet designs to demonstrate the potential for fun and innovation. Play, design, and build alongside your students. Nothing motivates learners more than enthusiasm and success!

Get Down On The Floor & Play!



ROK Blocks allow for endless creative fun. Here are a few more ideas to inspire you!





Educational Foundation

Rokenbok Toy Company
215 S. Highway 101, Suite 101
Solana Beach, CA 92075
1-888-4ROKBOK (888-476-5265)