## **Curated Resources for Early Childhood Makerspace Curriculum Development**

These are just a few of the resources available to help you organize your makerspace lessons, provocations, and activities for young children.

- The Early Childhood Robotics Network has several robotics curricula available for free download
- The Youth Maker Playbook from MakerEd is a great resource for shaping your teaching goals
- Makerspace for Education is a teacher blog that posts current resources, reviews, and activity plans about makerspaces

Additionally, below are two sample week-long makerspace activity schedules developed by DevTech researches. These schedules have been used effectively in DevTech's Summer Programs for children ages 4-8 years.

## Week of Movie Engineering:

Mandays	Tuesday	Madagada	Thursday	Fuldov.
Monday:	Tuesday:	Wednesday:	Thursday:	Friday:
Introduction to	Props and Set	Exploring	Filming and	Rehearsal and
storytelling	Design	Animations	Editing	Movie Premier
10 min- "Get to	20 min- Review	60 min- Learn	60 min- Film	40 min- Finish
know you" game	acting concepts,	about Foley Arts	Stop Motion	editing as a
	learn about	and sound	movies. Each	group. Children
20 min- Learn	props and sets.	creation through	child takes 5	can also make
about	Watch video clip	videos and	minutes	trailers, movie
Storyboards.	on the making of	sound activity.	whenever they	posters, or
Make our own	a stop-motion	Create Foley Art	want to be	tickets for their
individual stories	movie	for a video clip of	interviewed for a	movies.
using		children's choice.	Documentary	
storyboards.	40 min- Guest	ormarorro orioloo.	Film about the	20 min-
Story boards.	Visit from	30 min- Snack	making of their	Rehearsal!
30 min- Use	Engineer! Learn	JO IIIII - GIIACK	stop motion	Children practice
storyboards to	about Carvey	40 min- Create	movies.	what they will
1	tool. Draw and		IIIOVIES.	
create stories on		Storyboards in	00 min On a de	say about their
ScratchJr iPad	cut our own foam	groups ("movie	30 min- Snack	films during the
application	props	crews") and	50 . 0 .	Premier for
		begin setting up	50 min- Guest	Friends and
30 min- Snack	30 min- Snack	props and set.	Visit from	Family.
_		Learn about Stop	Videographer!	
40 min- Guest	40 min- Learn	motion using	Learn about	50 min- Movie
Visit from Drama	about sets and	iPad applications	Editing by	Party with
Educator! Learn	backdrops.	and iMovie	watching	Snacks! Take
about dramatic	Begin to create		videographer	silly photos with
arts and play	movie sets out of	10 min- Read If I	use iMovie to	props, decorate
some acting	foam flooring,	Built a House by	edit their	a "red carpet" for
warm-up games.	blocks, and	Chris van Dusen	documentary	families to walk
	cloth.		film. Begin to edit	in on, play
10 min- Read			stop motion	charades and
Rosie Revere,	10 min- Read If I		movies.	other acting-
Engineer by	Built a Car by			themed games
Andrea Beaty	Chris van Dusen			while eating
7				popcorn
				poposiii
				30 min- Premier
				for Friends and
				Family! Children
				-
				give
				explanations of their films.
				Families view
				Stop Motion
				Movies and
				Documentary on
				how they made
				them.

## **Week of Science Experimentation:**

Monday:	Tuesday:	Wednesday:	Thursday:	Friday:
Introduction to	Experimentation	Introduction to	Electricity and	Science Fair
Scientific Method	Exponimentation	Engineering	Circuitry	Day!
Coloritatio Wotifod		Linginiconing	Circuitry	Day.
20 min- "Get to	20 min- Review	30 min- Guest	60 min- Robotics	30 min-
know you" game.	scientific	Visit from a	Stations! Explore	Rehearse
Learn about	method. Learn	Chemist! Learn	electricity and	science fair
Science and the	about	about properties	engineering	presentations in
Scientific	experiments,	of materials, why	using	small groups
method.	variables, and	ice melts, and	technological	
	hypotheses.	different ways to	tools in the	30 min-
40 min- Practice		melt ice.	makerspace	Rehearse
making	40 min-		·	science fair
observations	Experiment with	30 min- Review	30 min- Snack	presentations
when we mix	Ice: What	Engineering		with other groups
milk, dish soap,	materials will	Design Process.	30 min- Play	of kids
and food coloring	melt Ice the	Use what we	trivia game about	
	fastest?	learned from the	science and	50 min- Science
30 min- Snack		Chemist to	engineering.	Party with
	30 min- Snack	design and build		Snacks! Stickers
40 min- Guest	40 . 0.	ice-melting	20 min- Plan	and tattoos, trivia
Visit from Social	40 min- Observe	machines	how we will	games, kids
Scientist! Learn	and record our		share our	create and
about how	ice-melt findings.	30 min- Snack	findings and	explode a baking
scientists and	Use our results	40 min	what we learned about the	soda and vinegar volcano!
engineers worked together	to imagine "ice melting	40 min- Experiment with	scientific method	voicario:
to create the	machines."	our ice-melting	to our families.	30 min- Science
KIBO Robot.	Learn about the	machines!	to our families.	Fair for Friends
RIDO RODOL	Engineering	macrimics:	10 min- Make ice	and Family!
10 min- Read	Design Process	10 min- Read	popsicles in ice-	Children give
Ada Twist,	Doolgiiii 100000	Rosie Revere,	cube trays	rehearsed
Scientist by	10 min- Read 11	Engineer by	oubo trayo	explanations of
Andrea Beaty	Experiments	Andrea Beaty		the scientific
/ marca Boaty	That Failed by			method and how
	Jenny Offill	•		engineers and
				scientists work
				together.
				Families view
				documentation of
				science
				experiments and
				creations from
				the week.