



FIZZ BOOM READ

Early Literacy and Science: Ideas for Summer Reading 2014

Introduction

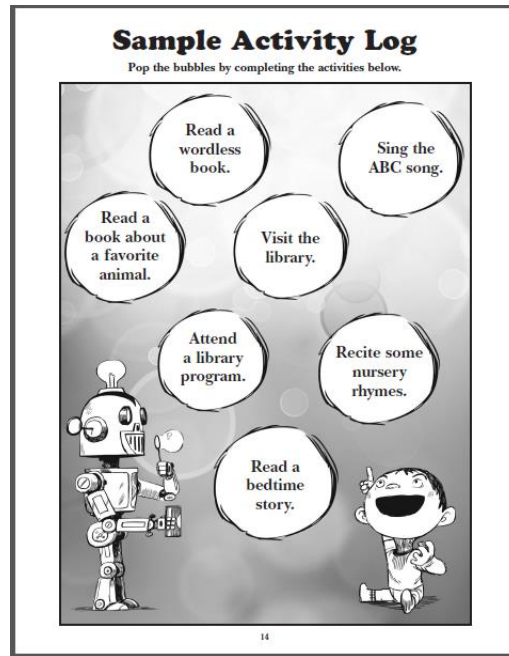
At first, it might seem that science is too advanced an idea for babies, toddlers or preschoolers. But think about how young children experience the world—through trial and error, through experimenting with how things feel, taste and sound. Young children also love to name things and create categories or groups of things. All of these behaviors are also part of what scientists do.

This document will give you some ideas of how to use the CSLP Early Literacy Manual and other resources to provide learning activities for young scientists and their caregivers. It starts with a list of great STEM (Science, Technology, Engineering and Math) picture books, and goes on to suggest some resources for theme-based storytimes and accompanying activities.

Have fun!

A Special Reading Log for Children Under 6

Consider using a special reading log for children under six. Instead of tracking the books or minutes they read, families are encouraged to do early literacy activities that they mark off their logs. Examples can be seen in the CSLP Early Literacy Manual, p. 13-14.



If you want to create your own Early Literacy Log like this one, use the template in the Manual, p. 14A, found in the PDF Forms Handouts section.

The following phrases will fit in the template. (Note: Some of the text boxes are a bit larger than others, so you may need to put longer phrases in one of the bigger boxes.)

After reading a story, tell it again by using toys or pictures.

Ask questions about the pictures while reading.

Check out a library book.

Draw a picture of your favorite character.

Find an interesting picture and tell stories about it.

Have child help you turn book pages while reading.

Learn letters by talking about the shapes you see.

Look at pictures in a grocery store ad or magazine.

Make up as many rhymes for "cat" as you can.

Name words that start with the same sound like "kitty cat".

Play in the pool or bathtub. Talk about how the water feels.

Read a story at naptime or bedtime.

Say "hi" to your librarian.

Sing a song in the car, at home or in the store!

Sort toys or blocks by colors, shape and/or size.

What sound does the letter B make? Your child's initial?

While reading, point to some of the words on the page.

Write a shopping or to do list together.

Some Great STEM Picture Books

Use this list to add to your collection before summer, or borrow some from ILL to see if you want to use them in programs. Note that some books are repeated in multiple categories--don't hesitate to use them in multiple storytime/activity sessions. Repetition is good for young brains!

Animals (Biology)

This list includes realistic animals.

Actual Size	Steve Jenkins	
Blue Sea	Robert Kalan	
Dog's Colorful Day	Emma Dodd	
Down by the Station	Will Hillenbrand	zoo animals
Every Autumn Comes the Bear	Jim Arnosky	
I Spy on the Farm	Edward Gibbs	
The Napping House	Audrey/Don Wood	pets
The Very Hungry Caterpillar	Eric Carle	metamorphosis (but his diet is not traditional)
Where in the Wild?	David M. Schwartz	camouflage and poetry

Bears (Biology)

And Then It's Spring	Julie Fogliano	
Eat Like a Bear	April Pulley Sayre	
Every Autumn Comes the Bear	Jim Arnosky	
Sleep, Big Bear, Sleep!	Maureen Wright	

Math and Measurement

Actual Size	Steve Jenkins	measurement; contrasting sizes
Balancing Act	Ellen Stoll Walsh	measurement; simple machines
Blue Sea	Robert Kalan	measurement; contrasting sizes
Driving My Tractor	Jan Dobbins	counting
Go Away, Big Green Monster!	Ed Emberley	shapes and counting
I'm the Biggest Thing in the Ocean	Kevin Sherry	measurement; contrasting sizes
Little Cloud	Eric Carle	shape recognition
One Big Building	Michael Dahl	construction; counting
The Very Hungry Caterpillar	Eric Carle	counting; sequencing (days of week)
Who Sank the Boat?	Pamela Allen	balance; measurement

"Sounds, Singing and Sight" (Senses)

Be sure to check out this great web resource with tons of songs and activity ideas by Eric Litwin (music educator and *Pete the Cat* author): www.thelearninggroove.com

Chugga-Chugga Choo-Choo	Kevin Lewis	alliteration
Dog's Colorful Day	Emma Dodd	words like "splat" "splish" "splish"
Down by the Station	Will Hillenbrand	phrase builds on: "Puff, puff, toot, toot, off we go!"
Driving My Tractor	Jan Dobbins	song/video online and included with CD/book combo; repeated phrase "Chug, chug, clank, clank, toot!"
Duck on a Bike	David Shannon	animal sounds
Go Away, Big Green Monster!	Ed Emberley	colors
I Spy on the Farm	Edward Gibbs	animal sounds
I Spy with My Little Eye	Edward Gibbs	eyesight
Listen to the Rain	Bill Martin	hearing
Little Cloud	Eric Carle	watching cloud formations
Meeow and the Little Chairs	Sebastien Braun	colors
No Sleep for the Sheep	Karen Beaumont	animal sounds
Peek-a-Moo!	Marie Torres Cimarusti	animal sounds
Pete the Cat: I Love My White Shoes	Eric Litwin	song is part of the story; illustrated with music notes
Purple Little Bird	Greg Foley	colors
Rain	Manya Stojic	senses
The Black Book of Colors	Menena Cottin	descriptions of colors; Braille
The Napping House	Audrey/Don Wood	alliteration
What the Ladybug Heard	Julia Donaldson	hearing; animal sounds
Where in the Wild?	David M. Schwartz	animal habitat; camouflage

“Things That Go” (Engineering/Transportation)

Alphabet Under Construction	Denise Fleming	construction/action words
Chugga-Chugga Choo-Choo	Kevin Lewis	train
Construction Zone	Tana Hoban	photos of construction machines
Digger, Dozer, Dumper	Hope Vestergaard	construction machines
Down by the Station	Will Hillenbrand	train
Goodnight, Goodnight, Construction Site	Sherri Duskey Rinker	construction machines
Huff & Puff	Claudia Rueda	construction materials
Job Site	Nathan Clement	construction machines
My Big Truck Book	Roger Priddy	large format board book
One Big Building	Michael Dahl	construction; counting
Tip Tip Dig Dig	Emma Garcia	construction machines
Twenty Big Trucks in the Middle of the Street	Mark Lee	various types of trucks
Who Sank the Boat?	Pamela Allen	boat

Weather/Seasons

And Then It's Spring	Julie Fogliano	
Blue Sky	Audrey Wood	cloud formations
Eat Like a Bear	April Pulley Sayre	seasons of the year
Every Autumn Comes the Bear	Jim Arnosky	
Kitten's Winter	Eugenie Fernandes	
Listen to the Rain	Bill Martin	
Little Cloud	Eric Carle	cloud formations; rain
Rain	Manya Stojic	
Sleep, Big Bear, Sleep!	Maureen Wright	
Snowballs	Lois Ehlert	
Splish! Splash! A Book About Rain	Josepha Sherman	
Stormy Weather	Debi Gliori	
The Napping House	Audrey/Don Wood	contrast the weather from the beginning and the end



Ideas for STEM Storytimes and Activities

I've listed some of my favorite storytime books, poems, songs and activities in this section. For additional song and activity ideas, be sure to check www.thelearninggroove.com. It's an excellent resource!

Storytime: Animals (Biology)

Guaranteed Hits: Books for Storytime

Big Fat Hen	Keith Baker	the traditional rhyme, illustrated
Dog's Colorful Day	Emma Dodd	dog
Down by the Station	Will Hillenbrand	zoo animals
Duck on a Bike	David Shannon	farm animal sounds
I'm the Biggest Thing in the Ocean	Kevin Sherry	ocean animals
I Spy on the Farm	Edward Gibbs	farm animals
I Spy with My Little Eye	Edward Gibbs	various animals
No Sleep for the Sheep!	Karen Beaumont	farm animals
Peek-a-Moo!	Marie Torres Cimarusti	farm animal sounds
Pete the Cat: I Love My White Shoes	Eric Litwin	cat
Rain	Manya Stojic	African animals
The Napping House	Audrey/Don Wood	pets
What the Ladybug Heard	Julia Donaldson	farm animals

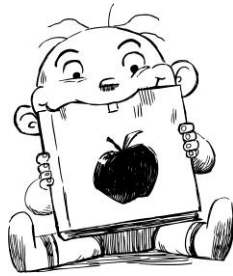
Poem: "One, Two, Buckle My Shoe" (Nursery Rhyme)—found in book format *Big Fat Hen* by Keith Baker

Songs/Fingerplays:

- "One, Two, Buckle My Shoe" by Hap Palmer, on *Early Childhood Classics*
- Expand or change "Two Little Blackbirds" as the CSLP Early Literacy Manual suggests on p. 55.

Extension Activities: (Use these to supplement storytime, or as part of a separate program on the theme or as drop-in activities in your library.)

- Display books like *Where in the Wild?* by David M. Schwartz and *Actual Size* by Steve Jenkins. Encourage families to look at books together and talk about animal attributes, camouflage and habitats.
- Display pictures of various animals and plants and encourage families to talk about what they know about them. Where do they live? What do they do? (See Manual p. 54.)
- Make copies of the Plants and Animals Pairing Game (Manual p. 68-69) for families to do at the library or to take home.



Storytime: Math and Measurement

Guaranteed Hits: Books for Storytime

Actual Size	Steve Jenkins	measurement; contrasting sizes
Balancing Act	Ellen Stoll Walsh	measurement; simple machines
Blue Sea	Robert Kalan	measurement; contrasting sizes
Driving My Tractor	Jan Dobbins	counting
Go Away, Big Green Monster!	Ed Emberley	shapes and counting
I'm the Biggest Thing in the Ocean	Kevin Sherry	measurement; contrasting sizes
Little Cloud	Eric Carle	shape recognition
One Big Building	Michael Dahl	construction; counting
The Very Hungry Caterpillar	Eric Carle	counting; sequencing (days of week)
Who Sank the Boat?	Pamela Allen	balance; measurement

Poem: “What Are Shapes?” by Sarah Northshield—Manual, p. 83

Songs/Fingerplays:

- “Four Little Shapes” by Sarah Northshield—Manual, p. 82
- “Let’s Count Fingers” by Sarah Northshield—Manual, p. 83

Extension Activities: (Use these to supplement storytime, or as part of a separate program on the theme or as drop-in activities in your library.)

- Put out toy blocks of various sizes, shapes and colors. Encourage families to play with them and talk about what they’re doing. You might consider giving adults a handout from the Manual p. 16-17, which explains the importance of playing with blocks.
- Put together *Science Center: Simple Machines* found in Manual, p. 112-114 for families to use. Or supply the materials and instructions for families to make their own, either in the library or at home.
- Put together *Science Center: Does It Float? Does It Sink?* found in Manual, p. 131-132. This one can be a little messy, so maybe it’s time to take some library activities outdoors!
- Create a poll and a simple graph like the one on p. 83 of the manual. It’s a visual way to represent information to youngsters and graphing is a key math skill.

Storytime: “Sounds, Singing and Sight” (Senses)

Be sure to check out this great web resource with tons of songs and activity ideas by Eric Litwin (music educator and *Pete the Cat* author): www.thelearninggroove.com

Guaranteed Hits: Books for Storytime

Chugga-Chugga Choo-Choo	Kevin Lewis	alliteration
Dog’s Colorful Day	Emma Dodd	words like “splat” “splish” “splosh”
Down by the Station	Will Hillenbrand	phrase builds on: “Puff, puff, toot, toot, off we go!”
Driving My Tractor	Jan Dobbins	song/video online and with CD/book combo; repeated phrase “Chug, chug, clank, clank, toot!”
Duck on a Bike	David Shannon	animal sounds
Go Away, Big Green Monster!	Ed Emberley	colors
I Spy on the Farm	Edward Gibbs	animal sounds
I Spy with My Little Eye	Edward Gibbs	eyesight
No Sleep for the Sheep	Karen Beaumont	animal sounds
Peek-a-Moo!	Marie Torres Cimarusti	animal sounds
Pete the Cat: I Love My White Shoes	Eric Litwin	colors; song is part of the story; illustrated with music notes
The Napping House	Audrey/Don Wood	alliteration

Poem: “Ten Little Fingers”, traditional

Songs/Fingerplays:

- “Apples and Bananas” by Keith Urban on *Country Goes Raffi*
- “I Can Shake My Shaker Egg” by Eric Litwin and Michael Levine on www.thelearninggroove.com (<http://www.thelearninggroove.com/#/i-can-shake-my-shaker-egg-in-the-hall-of-the-mountain-king/c1jqn>)

Extension Activities: (Use these to supplement storytime, or as part of a separate program on the theme or as drop-in activities in your library.)

- Play a rhyming version of “I Spy”. For example: “I spy with my little eye something in this room that is round and rhymes with ‘rock’...”
- Assemble and display *Science Center: Weather*, Manual p. 36-37—even though it is weather themed, it includes many different sensations, such as cold and hot.

Storytime: “Things That Go” (Engineering/Transportation)

Guaranteed Hits: Books for Storytime

Backseat A-B-See	Maria van Lieshout	traffic signs
Chugga-Chugga Choo-Choo	Kevin Lewis	train
Down by the Station	Will Hillenbrand	train
Goodnight, Goodnight, Construction Site	Sherri Duskey Rinker	construction machines
Huff & Puff	Claudia Rueda	construction materials
One Big Building	Michael Dahl	construction; counting
Tip Tip Dig Dig	Emma Garcia	construction machines

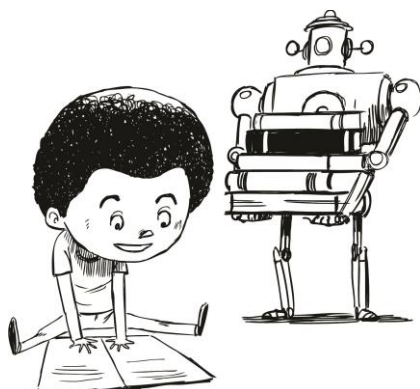
Poem: Choose a favorite from *Digger Dozer Dumper* by Hope Vestergaard

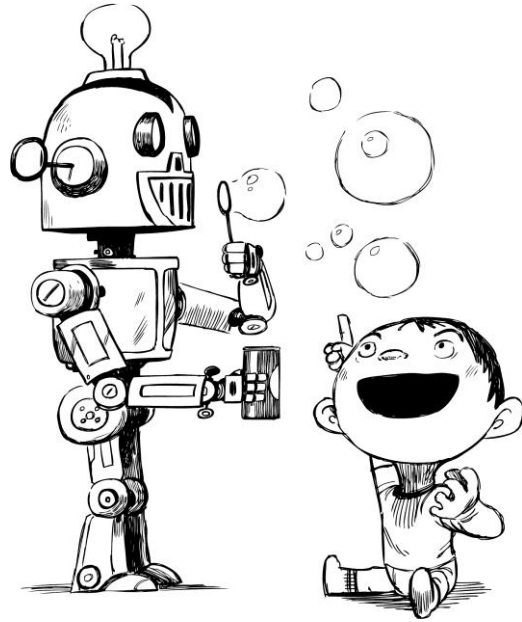
Songs/Fingerplays:

- “Walking, Walking” Manual, p. 116
- “The Freeze” by Greg and Steve on *Kids in Motion*
- Expand or change “Two Little Blackbirds” as the CSLP Early Literacy Manual suggests on p. 55. (Use with Tip Tip Dig Dig, which has blackbirds in it.)

Extension Activities: (Use these to supplement storytime, or as part of a separate program on the theme or as drop-in activities in your library.)

- Put out toy blocks of various sizes, shapes and colors. Encourage families to play with them and talk about what they’re doing. You might consider giving adults Manual p. 16-17, which explain the importance of playing with blocks.
- Put together *Science Center: Simple Machines* found on Manual p. 112-114 for families to use. Or supply the materials and instructions for families to make their own, either in the library or at home.
- Display other good books on the theme, and suggest that children and families look at them together and discuss them. Some suggested titles: *Backseat A-B-See* by Maria van Lieshout; *Construction Zone* by Tana Hoban; *Digger Dozer Dumper* by Hope Vestergaard; *Job Site* by Nathan Clement





Storytime: Weather/Seasons

Guaranteed Hits: Books for Storytime

Every Autumn Comes the Bear	Jim Arnosky	
Kitten's Winter	Eugenie Fernandes	
Little Cloud	Eric Carle	
Rain	Manya Stojic	
Sleep, Big Bear, Sleep!	Maureen Wright	
Snowballs	Lois Ehlert	
Stormy Weather	Debi Gliori	
The Napping House	Audrey/Don Wood	contrast weather from beginning-end

Poem: "Listen to the Rain", found in book by Bill Martin Jr. and John Archambault

Song/Fingerplay: "I Hear the Water" by Eric Litwin and Michael Levine on www.thelearninggroove.com
<http://www.thelearninggroove.com/#/i-hear-the-water/c1cvh>)

Extension Activities: (Use these to supplement storytime, or as part of a separate program on the theme or as drop-in activities in your library.)

- Assemble and display *Science Center: Weather*, Manual p. 36-37.
- Make copies of Weather Matching Game (Manual p. 48-49) and/or Leaf Shape Matching Game (Manual p. 73-74) for families to use in the library or to take home to play.