STEM activities can be found on the Dakota Science Center web site [www.dakota-science.org](http://www.dakota-science.org). The STEM activities will need to be adapted to the age level of the story time audience.

(Great Outdoors tab Birds-winter feeding)
After reading the book *Flying Birds* by Eun-sun Han;
After reading the book *Shoo! Scat!* by Lois Grambling;
  guide the children to make a milk carton bird feeder.

(Inquiry Based Learning Activities tab Bats)
After reading the book *Bat Loves the Night* by Nicola Davies guide the children through the Bats lesson.

(Inquiry Based Learning Activities tab Bean Sprout in a Glove)
After reading the book *Dandelion Seeds Big Dream* by Joseph Anthony;
After reading the book *If you Plant a Seed* by Kadir Nelson;
After reading the book *Poppy, Buttercup, Bluebell & Dandy* by Fiona Woodcock;
After reading the book *Tiny Seed* by Eric Carle;
  guide the children through the Bean Sprout in a Glove lesson.

(Inquiry Based Learning Activities tab Bird Nesting Materials)
After reading the book *Feather for Lunch* by Lois Ehlert guide the children through the Bird Nesting Materials lesson.

(Inquiry Based Learning Activities tab Butterfly Clothespin)
After reading the book *Clara Caterpillar* by Pamela Edwards guide the children through the Butterfly Clothespin lesson.

(Inquiry Based Learning Activities tab Blubber)
After reading the book *Polar Animals* by Franklin Watts;
After reading the book *Polar Opposites* by Erik Brooks;
  guide the children through the Blubber lesson.

(Inquiry Based Learning Activities tab Color Mixing)
After reading the book *White Rabbit’s Color* by Alan Baker;
After reading the book *Mix it Up* by Henri Tullet;
After reading the book *Mixed Up Chameleon* by Eric Carle;
After reading the book *Warthogs Paint* by Pamela Edwards;
After reading the book *Cat’s Colors* by Jane Cabrera;
  guide the children through the Coloring Mixing lesson.

(Inquiry Based Learning Activities tab Evergreen Trees)
After reading the book *Fir Tree* by Hans Christian Anderson;
After reading the book *Night Tree* by Eve Bunting;
  guide the children through the Evergreen Trees lesson.

(Inquiry Based Learning Activities tab Ice Painting)
After reading the book *Mice on Ice* by Rebecca and Ed Emberley guide the children through the Ice Painting lesson.
(Inquiry Based Learning Activities tab Insect Gliders)
After reading the book Little Squeegy Bug by Bill Martin Jr. & Patrick Corrigan;
After reading the book Crickwing by Janell Cannon;
   guide the children through the Insect Gliders lesson.

(Inquiry Based Learning Activities tab Kite)
After reading the book Kite Day by Will Hellenbrand;
After reading the book Housekeeper of the Wind by Christine Widman
   guide the children through the Kite lesson.

(Inquiry Based Learning Activities tab Ladybug Stone)
After reading the book Ten Little Ladybugs by Melanie Gerth;
After reading the book Grouchy Ladybug by Eric Carle;
   guide the children through the Ladybug stone lesson.

(Inquiry Based Learning Activities tab Potato Person)
After reading the book Pigs Love Potatoes by Anika & Christopher Denise;
After reading the book Potato: A Tale from the Great Depression by Kate Lied;
   guide the children through the Potato Person lesson.

(Inquiry Based Learning Activities tab Turkey)
After reading the book Turkey on the Loose! by Sylvie Wickstrom guide the children through the Turkey lesson.

(Teacher Resources tab Aeronautics)
After reading the book Wondrous Whirligig by Andrew Glass guide the children through the Helicopters lesson.
After reading the book View from the Air: Charles Lindbergh’s Earth and Sky by Reeve Lindbergh. guide the children through the Lifting Bodies lesson.
After reading the book Nobody Owns the Sky by Reeve Lindbergh. guide the children through the Airfoils lesson.
After reading the book Voyage in the Clouds by Matthew Olshan guide the children through the Parachute lesson.
After reading the book Young Orville and Wilbur Wright by Andrew Woods guide the children through the Cayley 1804 Glider lesson.
After reading the book Amelia’s Fantastic Flight by Rose Bursik guide the children through the Aviation Timeline lesson.
After reading the book Return of Freddy Legrand by Jon guide the children through the Parts of an Airplane lesson.
After reading the book One Monday by Amy Huntington;
After reading the book Like a Windy Day by Frank Asch;
   guide the children through the Wind Sock lesson.

(Teacher Resources tab Agricultural Science)
After reading the book Inch by Inch by Leo Lionni guide the children through the Earthworm lesson.
After reading the book Thank You Bees by Toni Yuly;
After reading the book Honeybee by Kirsten Hall & Isabelle Arsenault;
   guide the children through the Honey Bee (bee glider) and/or the Bee Buzzer lesson.
After reading the book Very Hungry Caterpillar by Eric Carle;
After reading the book *Ten Little Caterpillars* by Bill Martin Jr.;
guide the children through the Butterfly, Moth & Caterpillar (egg carton caterpillar) lesson.

After reading the book *Par-Tay* by Eloise Greenfield, guide the children through the Vegetable Benefits of Color.

(Teacher Resources tab Atmospheric Science)
After reading the book *Voyage in the Clouds* by Matthew Olson, guide the children through the Cloud and Sky Windows lesson.
After reading the book *It's Winter* by Linda Glaser guide the children through the Iceberg lesson.
After reading the book *Why is it Raining?* by Judith Williams;
After reading the book *Cloud Dance* by Thomas Locker;
guide the children through the Rain and Rainbows lesson.
After reading the book *Now It's Fall* by Lois Lenski;
After reading the book *Red Leaf, Yellow Leaf* by Lois Ehlert;
guide the children through the Seasonal Colors lesson.
After reading the book *Oh Say Can You Say What's the Weather Today All About* by Dr. Seuss,
guide the children through the Today’s Weather lesson.
After reading the book *Secret Life of a Snowflake* by Kenneth Libbrecht;
After reading the book *Story of Snow: The Science of Winter’s Wonder* by Mark Cassino & Jon Nelson;
After reading the book *Diamond in the Snow* by Jonathan Emmett;
guide the children through the Snowflake lesson.
After reading the book *Cloudette* by Tom Lichtenheld;
After reading the book *Little Cloud* by Eric Carle;
guide the children through the Clouds Have Names lesson.
After reading the book *Water Dance* by Thomas Locker;
After reading the book *Magic Schoolbus at the Waterworks* by Joanna Cole;
guide the children through the Water Cycle lesson.
After reading the book *Water Can Be* by Lura Purdie Salas guide the children through the Phases of Water lesson.
After reading the book *Earth’s Weather as Explained by Professor Zargle* by Jeane Willis guide the children through the Today’s Weather wheel activity.

(Teacher Resources tab Biology)
After reading the book *Grand Old Tree* by Mary Newell De Palma guide the children through the Tree Rings lesson.
After reading the book *Davy’s Dream: A young Boy’s Adventure with Wild Orca Whales* by Paul Owen Lewis;
After reading the book *Whale* by Judy Allen;
guide the children through the Whale: Whale Rope cards lesson.
After reading the book *A Web* by Isabelle Simler;
After reading the book *Very Busy Spider* by Eric Carle;
guide the children through the Spiders lesson.
After reading the book *Feather for Peacocks* by Jacqueline Jules guide the children through the Birds: Bird Feathers lesson.
After reading the book *Whoo? Whoo?* by David A. Carter;
After reading the book *Flying Birds* by Eun-sun Han;
guide the children through the Birds: Bird Groups lesson.
After reading the book *Birdsong* by Audrey Wood guide the children through the Birds: Bird Songs lesson.
After reading the book: A Home for Little Turtle by Ariane Chottin guide the children through the Turtle Shells lesson.
(Teacher Resources tab Chemistry)
After reading the book Water Dance by Thomas Locker guide the children through the Phases of Water lesson.

(Teacher Resources tab Climate Change Education)
After reading the book Winston of Churchill: One Bear’s Battle against Global Warming by Jeremiah Trammel guide the children through the Glaciers Then & Now lesson.

(Teacher Resources tab Computer Science)
After reading the book Boy + Bot by Ame Dyckman;
After reading the book Beep and Bah by James Burks;
guide the children through the Cubelets lesson.
After reading the book Doug Unplugged by Dan Taccarino guide the children through the Conditionals, Events, Loops and Move It lessons.
After reading the book Wodney Wot’s Wobot by Helen Lester guide the children through the Ozobot lesson.

(Teacher Resources tab Geography)
After reading the book Compasses by Richardson guide the children through the Geospatial Education: Cardinal Directions and Make a Compass lessons.
After reading the book When it’s Six O’Clock in San Francisco by Cynthia J. Omolou guide the children through the Geospatial Education: Time Zones lesson.
After reading the book Earth and I by Frank Asch;
After reading the book I Love Our Earth by Bill Martin Jr. & Michael Sampson;
After reading the book Secrets of Our Earth by Carron Brown and Wesley Robins;
guide the children through the Earth’s Systems lesson.
After reading the book How I Learned Geography by Uri Shulevitz guide the children through the Map Elements lesson.
After reading the book Snow Rabbit, Spring Rabbit:A Book of Changing Seasons by Il Sung Na;
After reading the book Secrets of Our Earth by Carron Brown & Wesley Robins;
guide the children through the Four Seasons lesson.

(Teacher Resources tab Geology)
After reading the book Earth: My First 4.56 Billion Years by Stacy McAnulty guide the children through the Earth’s Layers lesson

(Teacher Resources tab GLOBE)
Elementary GLOBE is designed to introduce K-4 students to the study of Earth System Science. The complete instructional unit includes: 1) online science-based story books designed to introduce students to key concepts in water, soil, clouds, seasons, Earth system, aerosols and climate studies and 2) classroom learning activities complementing the science content covered in each storybook that are designed to further engage students in GLOBE’s investigation areas. The GLOBE Elementary tab has the online books and activities.

(Teacher Resources tab GLOBE at Night)

(Teacher Resources tab Growing Up Wild)
After reading the book *Toucan Can* by Juliette MacIver & Sarah Davis guide the children through the Bird Beak Buffet lesson.
After reading the book *Mister Seahorse* by Eric Carle have the children make a Seahorse. The pattern is in the Deep Blue Sea lesson.
After reading the book *Fish is Fish* by Leo Lionni;
After reading the book *Swimmy* by Leo Lionni;
guide the children through the Fishing Fun lesson.
After reading the book *Leaves, Leaves, Leaves* by Nancy Wallace guide the children through the Looking at Leaves lesson.
After reading the book *Old Mother Bear* by Victoria Miles;
After reading the book *Eat Like a Bear* by April Sayre;
After reading the book *Welcome Home Bear: A Book of Animal Habitats* by Il Sung Na;
guide the children through the Lunch for a Bear lesson.
After reading the book *Lost in the Woods* by Carl Sams & Jean Stoick guide the children through the Oh Deer lesson.
After reading the book *Little Tom Turkey* by Frances Bloxam guide the children through the Terrific Turkeys lesson.
After reading the book *Gobble Gobble* by Cathryn Falwell guide the children through the Tracks lesson.
After reading the book *Finding Wild* by Megan Wagner Lloyd guide the children through the What’s Wild lesson.
After reading the book *Diary of a Worm* by Doreen Cronin guide the children through the Wiggling Worms lesson.
After reading the book *What Will I Be?* by Nicola Davies guide the children through the Grow as We Go lesson.

(Teacher Resources tab Math)
After reading the book *White Rabbit’s Color* by Alan Baker, guide the children through the Coloring Mixing activity (Geometry in Art- page 23 of the additional activities file) and the Marble Art activity (Geometry in Art- page 12 of the additional activities file).
After reading the book *Seeing Symmetry* by Loreen Leedy guide the children through the Bilateral Symmetry activity (Geometry in Art- page 12 of the additional activities file).
After reading the book *Shapes* by Anne Geddes guide the children through the Square Art activity (Geometry in Art- page 21 of the additional activities file).
After reading *Toads and Tessellations: A Math Adventure* by Sharon Morrisette guide students through the Geometry in Art: Tessellations lesson.
After reading the book *I Spy Shapes in Art* by Lucy Micklethwait;
After reading the book *Have You Seen Monsters* by Steve Light;
guide the children through the Geometry in Art activities.
After reading the book *Emperor’s Army: A Mathematical Adventure* by Virginia Pilegard - have the children make clay statues

(Teacher Resources tab Physics/Astrophysics/Astronomy)
After reading the book *Hello, Red Fox* by Eric Carle;
After reading the book *Opt: An Illusionary tale* by Arline Baum;
guide students through the Light and Color: Optical Illusions lesson.
After reading the book *NanoBots* by Chris Gall;
After reading the book *Bubbles* by Kit Chase;
After reading the book *Bubble Factory* by Tomie de Paola;
guide students through the Nanoscience in Bubbles lesson.
After reading the book *Moonbear’s Shadow* by Frank Asch;
After reading the book *Shadow* by Donna Diamond;
After reading the book *I Have a Friend* by Keiko Narahashi;
  guide students through the Sundials lesson.

After reading the book *Ada’s Violin* by Susan Hood;
After reading the book *Anna Hibiscus’ Song* by Atinuke & Lauren Tobia;
After reading the book *Bats in the Band* by Brian Lies;
After reading the book *Charlie Parker Played Be Bop* by Chris Raschka;
After reading the book *Daddy Longlegs Blues* by Mike Ornstein;
After reading the book *Down by the Station* by Will Hillenbrand;
After reading the book *Forever Young* by Bob Dylan;
After reading the book *I Got the Rhythm* by Connie Schofield-Morrison;
After reading the book *Jazzmatazz!* by Stephanie Calmenson;
After reading the book *Luigi at the Opera* by Ellie Alldredge-Bell;
After reading the book *Lullaby Songbook* by Jane Yolen;
After reading the book *Magic Flute* by Anne Gatti;
After reading the book *Meet the Orchestra* by Ann Hayes;
After reading the book *Moses goes to a Concert* by Isaac Millmann;
After reading the book *Mr. Mosquito Put on His Tuxedo* by Barbara Morrow;
After reading the book *Opera Cat* by Tes Weaver;
After reading the book *Sing, Don’t Cry* by Angela Dominguez;
After reading the book *Son of Middle C* by Alison McGhee;
After reading the book *Sylvester the Mouse with the Musical Ear* by Adelaide Holl;
After reading the book *Violin for Elva* by Mary Ray;
After reading the book *What will we do with the Baby-O?* by Theo Heras;
After reading the book *You’re a Grand Old Flag* by George Cohan, pictures by Norman Rockwell;
After reading the book *Zin! Zin! Zin! A Violin* by Lloyd Moss;
  guide students through a Physics of Music lesson.

(Teacher Resources tab Space Studies)
After reading the book *Another Day in the Milky Way* by David Milgrim;
After reading the book *Moon Over Stars* by Dianna Aston;
  guide the children through the Voyager timeline lesson.
After reading the book *Comets, stars, the Moon and Mars* by Douglas Florian guide the children through the Saturn model lesson.
After reading the book *Cars on Mars: Roving the Red Planet* by Alexandra Siy;
After reading the book *Toys in Space* by Mini Grey;
  guide the children through the Straw Rocket lesson.
After reading the book *If You Were the Moon* by Laura Salas;
After reading the book *Grandpa Takes Me to the Moon* by Timothy R. Gaffney;
After reading the book *Otter in Space* by Sam Garton;
  guide the children through a Moon lesson.
After reading the book *Big Mooncake for Little Star* by Grace Lin guide the children through the Moon: Moon Phases lesson.
After reading the book *Space Disaster* by Matthew McElligott;
After reading the book *All My Friends are Planets* by Alisha Vimawala;
  guide the children through the lesson Planet Distances.
After reading the book *Sunshine* by Jan Ormerod guide the children through the What is Sunshine? lesson.
After reading the book *Life on Mars* by Jon Agee guide the children through the Extraterrestrial Life lesson.
After reading the book *Ludwig the Space Dog* by Henning Löhlein guide the children through the Rocket Tangram lesson.
After reading the poem *Wind on the Hill* by Alan Alexander Milne guide the children through the Wind on Earth and Other Planets lesson.
After reading the book *Extreme Survivors* by Connie & Peter Roop;
After reading the book *Life on Mars* by Jon Agee;
After reading the book *Company’s Coming* by Arthur Yorinks;
After reading the book *Alien Invaders* by Lynn Huggins-Cooper;
        guide the children through the Extremophiles lesson.
After reading the book *Ludwig the Space Dog* by Henning Löhlein guide the children through the Mars and Earth Matching lesson.
After reading the book *Mousetronaut Goes to Mars* by Astronaut Mark Keppy guide the children through the planet mask lesson.
After reading the book *Journey to Constellation Station* by Lindsay Barry;
After reading the book *Starry Skies* by Samantha Chagellan;
        guide the children through the Star Wheel lesson.
After reading the book *Astro Bunnies* by Christine Loomis guide the students through the Galaxies lesson to make a galaxy pinwheel.