



FZCJ

Science • Technology • Engineering • Art • Math

Suggested reading and **STEAM** activities from TMCPL are designed to provide children with learning opportunities that combine fun hands-on activities with experiences to promote early literacy.

The benefits of STEAM education include a lifelong love for learning, as well as the development of self-esteem, critical thinking, creativity, communication skills, and sensory use to explore, observe, and learn.

SUN	SCIENCE MONDAY	TECHNOLOGY TUESDAY	ENGINEERING WEDNESDAY	ART THURSDAY	MATH FRIDAY	SAT
<p>Read: <i>Burrows, Nests, and Lairs-Animal Architects</i> By: Ada Spada</p>	<p>Make a wormery out of glass jar – sand, soil, gravel, old leaves, water, grass clippings, leaves, and worms</p>	<p>Learn cloud types: www.wartgames.com under themes type in cloud</p>	<p>Make a cloud view out of cardboard glue pictures of different types of clouds on outside viewing area</p>	<p>Watch a specific cloud and draw it each time it changes</p>	<p>Track clouds for a week. Categorize into different types of clouds.</p>	1
<p>2 Read: <i>The Sky Stirs Up Trouble-Tornadoes</i> By: Belinda Jenson</p>	<p>3 Tornado in a jar – cold water, squirt of liquid soap, cap full vinegar- place lid shake.</p>	<p>4 Make a natural disaster emergency kit or backpack</p>	<p>5 Design a tornado resistance tower out of Craft sticks glue or hot glue.</p>	<p>6 Make a tornado out of one piece of paper</p>	<p>7 Look up the tornado rating scale</p>	8
<p>9 Read: <i>Creek Critters</i> By: Jennifer Keats Curtis</p>	<p>10 Collect pond water in clear jar. Use a magnify glass to examine</p>	<p>11 Take binoculars to a pond or creek for animal observation</p>	<p>12 Make a pond viewer: Use a milk carton – cut ends Saran wrap and tape bottom, put in water</p>	<p>13 Make a collage of a pond. Use paper, tissue paper, glue</p>	<p>14 Biodiversity- make a list of all living things at pond. Make check marks if you see more than one</p>	15
<p>16 Read: <i>Epic Climbs</i> By: McKinley Matterhorn</p>	<p>17 Explore gravity: Experiment with different weighted objects to drop and observe</p>	<p>18 Friction Test - Make a ramp with several materials (aluminum foil, felt, wax paper)</p>	<p>Climbing is the STEM equivalent to sports. Start designing climb safe environments outdoors (trees, swing sets, walls)</p>	<p>20 Paint rock climbing environments Using only orange, red, brown and blue for sky</p>	<p>21 Measure your own climbing distances using string, rope, yarn</p>	22
<p>23 Read: <i>A Tree is a Home</i> By: Pamela Hickman</p>	<p>24 Find a tree nearby. Take one week to observe all wildlife that lives there</p>	<p>25 Film wild life in action in nearby tree. Zoom in to get a good look!</p>	<p>26 Build a small observation area in tree to sit or stand</p>	<p>27 Draw a nearby tree. Include all wildlife that lives there</p>	<p>28 Count how many days before the first leaf drops or sprouts from nearby tree</p>	29
<p>30 Read: <i>Honey Bee</i> By: Apis Mellifera</p>	<p>Crumble up some cheese puffs. Wrap your finger in pipe cleaner. Leave longer ends to dip into crumbs. Pick up pollen like a bee!</p>	<p>Bees need lots of water. Hot glue discarded, caps and lids onto a stick. Fill caps with water and place in ground</p>	<p>Design and try to make a building out of soap bars, modeling clay or beeswax, if available.</p>	<p>Make a model of a bee out of paper. Don't forget the – head, thorax, abdomen!</p>	<p>Bee Colony population has fallen in Ohio from 300,000 to 50,000. How many colonies did we lose?</p>	