



JULY

Science • **T**echnology • **E**ngineering • **A**rt • **M**ath

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>Honey Bee</i> By: Apis Mellifera</p>	<p>1 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>2 Bees need lots of water. Hot glue discarded, caps and lids onto a stick. Fill caps with water and place in ground</p>	<p>3 Design and try to make a building out of soap bars, modeling clay or beeswax, if available.</p>	<p>4 Make a model of a bee out of paper. Don't forget the – head, thorax, abdomen!</p>	<p>5 Bee Colony population has fallen in Ohio from 300,000 to 50,000. How many colonies did we lose?</p>	6
<p>7 Read: <i>Bugs in Danger</i> By: March Kurlansky</p>	<p>8 Go on a butterfly and lady bug hunt. What did you see more of? Make notes of their environment and activities</p>	<p>9 Pick one backyard insect to study this week and research information</p>	<p>10 Make a firefly catching container. Don't forget they need to breathe. Catch, observe, release!</p>	<p>11 Make the life cycle of a butterfly out of clay or play dough</p>	<p>12 Fold strips of paper into hexagons or honeycombs. How many can you fit on a piece of paper</p>	13
<p>14 Read: <i>What's Inside a Flower</i> By: Rachel Ignotofsky</p>	<p>15 Dissect a daylily flower. Lay out on paper and label each part. P.S the petals are edible 😊</p>	<p>16 Use the internet to find the names and pictures of local and native flowers and plants</p>	<p>17 Build Lego flowers. Set outside and see if they attract any pollinators</p>	<p>18 Draw a straight line across paper. Draw the flowers on top and draw the root system on the bottom</p>	<p>19 Go for a neighborhood walk. Count all the different species of flowers along the way</p>	20
<p>21 Read: <i>The Monarchs Are Missing</i> By: Rebecca Hirsch</p>	<p>22 Plant milkweed in your garden. Guaranteed to attract Monarchs to your yard to study</p>	<p>23 Participate in symbolic Monarch migration with students in Mexico www.symbolicmigration.org</p>	<p>24 Grow plant species with large leaves, build a rock pile, grow a bush, to protect these pollinators from harsh weather.</p>	<p>25 Symmetry. Cut out a paper butterfly shape. Paint one side of wings. Use orange, black, and white. Fold wings together and open</p>	<p>26 Keep a record count of butterflies you spot in your yard. Compare to the number of Monarch's you spot</p>	27
<p>28 Read: <i>Rocks and Minerals</i> By: DK Kids</p>	<p>29 Collect rocks for a week. Pick up from different areas – yard, creek, woods, etc. Record differences</p>	<p>30 Come up with a product you can make using the characteristics of a rock</p>	<p>31 Gather rocks and invent new ways to transport them</p>	<p>Create a dot painting on rocks. Use a Q-tip to dab paint in perfect circles on to rocks to create a pattern</p>	<p>Go on a rock hunt. Line up rocks with common characteristics (type, color, size, shape)</p>	