

4th Grade STEM/SS Activities

Show what you know by completing three of the activities below. Just like tic-tac-toe, you can complete three in a row, column, or diagonal. Just be sure to do your best work!

Tic	TAC	TOE
<p>Complete the lab How Do You Make an Egg Float? (see link), then complete the Science Lab Organizer.</p> <p>Attach Lab Organizer to this Tic-Tac-Toe sheet.</p>	<p>Make an Atlas: Make an Atlas that includes information and maps. Research the regions of Indiana. Write about the physical and human features of Indiana. Draw maps of Indiana.</p> <p>Attach your work to this Tic-Tac-Toe sheet.</p>	<p>Explore Outdoors: There is a limitless supply of fun, easy and readily available (and free!) things to do outdoors that encourage compare, observe, explore and experiment. From overturning large rocks after a rainstorm to reveal wiggly earthworms. Frogs, lizards, butterflies, caterpillars, nests, and ponds all invite observation of habitats and ecosystems. Use your 4th Grade National Park Pass to go visit IN State Parks & National Parks!</p> <p>Attach your written observations and pictures to this Tic-Tac-Toe Sheet.</p>
<p>Make a Timeline: Use paper to make an illustrated timeline. Make a timeline from 1800 to present. Include important Indiana and United States events on the timeline. Make illustrations for the events.</p> <p>Attach to this Tic-Tac-Toe sheet.</p>	<p>Complete the lab How Do You Simulate Sonar? (see link), then complete the Science Lab Organizer.</p> <p>Attach Lab Organizer to this Tic-Tac-Toe sheet.</p>	<p>Make a Newspaper: Put together a newspaper that tells about life in Indiana before it became a state. Create articles, advertisements, and cartoons for your newspaper. Describe what people in your community do for a living, and how they are affected by events.</p> <p>Attach to this Tic-Tac-Toe sheet.</p>
<p>Make a Poster: Make a poster about Indiana's economy and government. Include pictures and drawings of industries, entrepreneurs, and the state and local government. Write labels and short captions for the pictures and drawings.</p> <p>Attach to Tic-Tac-Toe Sheet.</p>	<p>Build Something Build with blocks, Legos, or tinker-style toys, they can compare structures, think about the relationship between height and stability and investigate what stands and what falls. OR Assemble a marble-run kit from an assortment of household items, including toilet paper holders, plastic funnels, small train track pieces, cardboard, and lots of tape.</p> <p>Attach your written observations and pictures to this Tic-Tac-Toe Sheet.</p>	<p>Visit a Museum: Visit a museum in Indiana (or another state). After visiting write a paragraph about what you saw and learned at this museum. Examples: -Indiana State Museum -The Eiteljorg Museum -Indiana Historical -Conner Prairie -Indiana Historical Society -A Historical Site</p> <p>Attach to this Tic-Tac-Toe sheet.</p>

5th Grade STEM/SS Activities

Show what you know by completing three of the activities below. Just like tic-tac-toe, you can complete three in a row, column, or diagonal. Just be sure to do your best work!

Tic	Tac	Toe
<p>Complete the lab How Do You Make a Magnifying Glass? (see link), then complete the Science Lab Organizer. Attach Lab Organizer to this Tic-Tac-Toe sheet.</p>	<p>Be an Author: Write and also illustrate a short book or comic about Native American groups. Attach your work to this Tic-Tac-Toe sheet.</p>	<p>Enjoy the Night: If fireflies are in your area, catching some at twilight in jars (with holes in the lids) is a wonderful way to observe bioluminescence. Some organisms glow. Ask why! Be sure to release after observing. Attach your written observations and pictures to this Tic-Tac-Toe Sheet.</p>
<p>Make a Poster: Make a poster that shows the exploration and early colonization of North America. Attach poster to this Tic-Tac-Toe sheet.</p>	<p>Complete the lab How Do You Make Crystals? (see link), then complete the Science Lab Organizer. Attach Lab Organizer to this Tic-Tac-Toe sheet.</p>	<p>Make a Timeline: Use paper to make an illustrated timeline. Make a timeline that shows the nation's growth. Include important United States events on the timeline. Make illustrations for the events. Attach poster to this Tic-Tac-Toe sheet.</p>
<p>Create a Newspaper: Create a colonial newspaper that tells about the events leading up to the Revolutionary War and how the colonists won their freedom. Attach to Tic-Tac-Toe Sheet.</p>	<p>Enjoy the Night Sky: Stay up a bit later on a clear summer night and spend time looking at the stars and pointing out constellations. Locate Venus and constellations. If you can observe the night sky for multiple nights. Attach your written observations and pictures to this Tic-Tac-Toe Sheet.</p>	<p>Plan a Display: Plan a display for a fair about daily life in one of the 13 English Colonies. Include a drawing and information in your plans. Attach plans to this Tic-Tac-Toe sheet.</p>

6th Grade STEM/SS Activities

Show what you know by completing three of the activities below. Just like tic-tac-toe, you can complete three in a row, column, or diagonal. Just be sure to do your best work!

Tic	Tac	Toe
<p>Complete the lab <u>How Do You Make Your Own Constellation?</u> (see link), then complete the Science Lab Organizer.</p> <p>Attach Lab Organizer to this Tic-Tac-Toe sheet.</p>	<p>Make a Map: The Trans-Siberian Railroad is the longest single rail line in the world. Climb aboard in Moscow and travel all the way across Russia. Create an illustrated map of the journey. On the map, show the train's route, indicate the places where you would stop, and include images and descriptions of what you would see.</p> <p>Attach your work to this Tic-Tac-Toe sheet.</p>	<p>Explore the Kitchen: What happens when you mix those two ingredients together? Why do you need baking soda in those cookies? How does Jell-O stay together? Do all fruits have the same number of seeds?</p> <p>Attach your written observations and pictures to this Tic-Tac-Toe Sheet.</p>
<p>Exploring Italian Cuisine: Pizza. Pata. Mozzarella. Olive oil. These are some of the most popular elements of Italian food, one of the world's favorites. Research more about the history and variety of Italian cooking. Write a paragraph about what you learned. Fun fun visit an Italian restaurant or cook an Italian meal!</p> <p>Attach to this Tic-Tac-Toe sheet.</p>	<p>Complete the lab <u>How Do You Make A Pencil Float in the Air?</u> (see link), then complete the Science Lab Organizer.</p> <p>Attach Lab Organizer to this Tic-Tac-Toe sheet.</p>	<p>Make a Poster: The D-Day invasion of Normandy was crucial to the Allies' victory in World War II. Create a poster that celebrates the anniversary of the D-Day invasion. Research to get more information before completing.</p> <p>Attach poster to this Tic-Tac-Toe sheet.</p>
<p>Make a Map: Conduct research to learn about immigration to Canada, including where immigrants to the country come from and where in Canada they settle. Create a map to show these patterns. Mark the regions in which most immigrants settle, and draw arrows to show the directions from which they come.</p> <p>Attach to Tic-Tac-Toe Sheet.</p>	<p>Explore Flight: In an open space try to fly kites, frisbees, and paper airplanes. All use basic principles of flight. One plane flies far, and the other doesn't? Ask why!</p> <p>Attach your written observations and pictures to this Tic-Tac-Toe Sheet.</p>	<p>Make a Poster: The Amazon River is the world's second-longest river, and it crosses nearly half of South America. It also runs through the world's largest rainforest. Research aspects of the river, including its wildlife, the rainforest it cuts through, the people who live alongside it, and the environmental issues surrounding it. Use the information you find and create a poster about the amazing Amazon River.</p> <p>Attach to this Tic-Tac-Toe sheet.</p>