

# Tic Tac Toe - Template

Complete any three activities to earn Tic Tac Toe.

<p>For text within a cell, use the style "Normal text." The cell padding should be 0.25." Add space after paragraph (4).</p>		

# The Chemistry of Life Tic Tac Toe (Student)

Complete any three activities to earn Tic Tac Toe. *You must use the center space.*

<p>Fill out the <a href="#">Macromolecule</a> chart independently.</p>	<p>Collaborate with a partner on the Periodic Trends Card Sort.</p>	<p>Collaborate with a small group to complete the <a href="#">Properties of Water Lab</a>.</p>
<p>Collaborate with a partner on the Macromolecule Card Sort.</p>	<p>Investigate with your lab group: <a href="#">Who Took Jerell's iPod</a>.</p>	<p>Create a Properties of Water foldable independently.</p>
<p>Independently take notes on the <a href="#">Biomolecules Video</a> from the Amoeba Sisters.</p>	<p>Independently take notes on the <a href="#">Water- Liquid Awesome Video</a> from the CrashCourse.</p>	<p>Independently take notes on the <a href="#">Properties of Water Video</a> from the Amoeba Sisters.</p>

# The Chemistry of Life Tic Tac Toe (Teacher)

## About this Tic Tac Toe

- Students must complete three options in a row from the board earning Tic Tac Toe. They must use the center space in this example.
- Options are designed so that students will be able to show mastery of all of the following concepts, as long as they choose three in a row: macromolecules, the properties of water essential for life, and (optionally) Periodic Table trends. Students still needing support in Periodic Table trends before moving on should be instructed to complete Tic Tac Toe in the center column.
- Choosing three options in a row ensures that students will work both independently and collaboratively. Students collaborate with peers through lab and partner work and self-pace through independent work.

<p><a href="#">Macromolecule Chart</a> Print or assign digitally.</p>	<p><a href="#">Periodic Trend Cards</a> Print a <i>colored</i> set for each group.</p>	<p>Lab from <a href="#">Biology Junction</a>. Print a copy for each student. Plan lab time for all groups to complete at the same time. Read through PDF to plan your lab. Make any changes necessary for your students or classroom.</p>
<p><a href="#">Macromolecule Cards</a> Print a set for each group.</p>	<p>Lab from <a href="#">Serendip Studios</a> <b>ALL STUDENTS COMPLETE.</b> Print a copy for each student. Use the <a href="#">Teacher Prep Notes</a> to plan your lab and schedule lab time. Make any changes as needed.</p>	<p>Properties of Water foldable Foldables should include hydrogen bonding, polarity, cohesion, adhesion, universal solvent, temperature moderation, and expansion upon freezing.</p>
<p><a href="#">Biomolecules Video</a> from the Amoeba Sisters.</p>	<p><a href="#">Water- Liquid Awesome Video</a> from CrashCourse.</p>	<p><a href="#">Properties of Water Video</a> from the Amoeba Sisters.</p>

Get more resources like this at [www.opportunityeducation.org/resources](http://www.opportunityeducation.org/resources)

# Algebra Tic -Tac-Toe (Student)

Complete any three activities by simplifying the algebraic expression to earn Tic Tac Toe. *You must use the center space.*

$4y + 2y - 3y$	$6x - 2y + 3x + 5y$	$5a - 2b + 3a + 4b$
$2a + 3b - 4a - 2b$	$2a^2 - 3b + 4a - 2b^2 - 3a + 5b$	$3x + 2x - 5x$
$5x^2 + 2x - 3x^2 - 4x$	$3a - 2b + 4a + 5b - 2a - 3b$	$2x^2 + 3x^2 - 4x^2$

## Answer Sheet

$$4y + 2y - 3y = 3y$$

$$6x - 2y + 3x + 5y = 9x + 3y$$

$$5a - 2b + 3a + 4b = 8a + 2b$$

$$2a + 3b - 4a - 2b = -2a + b$$

$$2a^2 - 3b + 4a - 2b^2 - 3a + 5b =$$
$$2a^2 - 3a + 4a - 2b^2 - 5b - 3b$$

$$3x + 2x - 5x = 0x$$

$$5x^2 + 2x - 3x^2 - 4x =$$
$$2x^2 - 2x$$

$$3a - 2b + 4a + 5b - 2a - 3b = 5a$$

$$2x^2 + 3x^2 - 4x^2 = x^2$$

## Additional Options for Math Concepts

Algebra Tic-Tac-Toe	<ul style="list-style-type: none"> <li>• Solve linear equations</li> <li>• Solve systems of equations</li> </ul>
Geometry Tic-Tac-Toe	<ul style="list-style-type: none"> <li>• Identify and classify angles</li> <li>• Find the area and perimeter of geometric shapes</li> </ul>
Statistics Tic-Tac-Toe	<ul style="list-style-type: none"> <li>• Calculate mean, median, and mode</li> <li>• Analyze data using measures of central tendency and variability</li> </ul>
Functions Tic-Tac-Toe	<ul style="list-style-type: none"> <li>• Evaluate functions</li> <li>• Graph linear and quadratic functions</li> </ul>
Number Sense Tic-Tac-Toe	<ul style="list-style-type: none"> <li>• Perform operations with rational numbers</li> <li>• Simplify square roots and cube roots</li> </ul>
Data Analysis Tic-Tac-Toe	<ul style="list-style-type: none"> <li>• Collect and organize data</li> <li>• Create and interpret scatter plots</li> </ul>
Word Problems Tic-Tac-Toe	<ul style="list-style-type: none"> <li>• Solve multi-step word problems involving various math concepts</li> <li>• Apply problem-solving strategies to real-life situations</li> </ul>