



Student Name: **Jonathan Doe**  
 Grade: **8**  
 Date of Birth: **05/20/2007**  
 SASID: **1234567892**

School: **Demo Middle School**  
 District: **Demo District**  
 Test Year: **2021**

# Connecticut Next Generation Science Standards Assessment Results

The Connecticut Next Generation Science Standards (NGSS) Assessments are administered to students in Grades 5, 8, and 11. This report shows Jonathan's achievement on the NGSS assessment aligned to science standards from Grades 6 through 8. Your child completed this assessment in spring 2021.

The NGSS are a new set of K–12 science standards that the Connecticut State Board of Education adopted in 2015. The NGSS challenge students to use science and engineering practices to show they understand core ideas and concepts in science. The standards encourage the use of real-world situations to help students think and act like scientists as they explore and make sense of the world around them.

Connecticut's comprehensive plan for college and career readiness includes challenging academic standards and assessments to measure student progress. The results below should be used along with other information, such as classwork and other tests, when making educational decisions. Specific questions about individual student results should be directed to local school personnel.

## Science Results Jonathan's Total Scale Score = 791

Overall scores from the NGSS assessment are reported in scale-score units with a range of 700–899. Within the scale-score range, four performance levels have been established for each content area. Scoring in the Level 3 or 4 range is a challenging yet reasonable expectation for Connecticut students.

A student's test score can vary if tests are taken several times. If Jonathan were tested again in science, the new scale score would probably fall between 776 and 806.

Jonathan scored at **Level 2** on the NGSS assessment.

<b>Science</b>		✓		
	<b>Level 1</b> Does Not Meet (700–771)	<b>Level 2</b> Approaching (772–797)	<b>Level 3</b> Meets (798–841)	<b>Level 4</b> Exceeds (842–899)

### Level 2: Approaching the Achievement Standard

Jonathan has nearly met the achievement standard for science expected for this grade. Students performing at this level require further development toward mastery of science knowledge and skills. Students performing at this level will likely need support to get on track for success in the next grade.

## Areas of Knowledge and Skills

The results below show how Jonathan performed when using science and engineering practices to demonstrate understanding of the core ideas and concepts in life sciences, physical sciences, and Earth/space sciences. A description of what students are expected to know and be able to do is included.

Practices and Concepts in Life Sciences	Practices and Concepts in Physical Sciences	Practices and Concepts in Earth/Space Sciences
 <b>Approaching Standard</b>	 <b>Below Standard</b>	 <b>Above Standard</b>
<p>In life sciences, student performance includes:</p> <ul style="list-style-type: none"> <li>Using evidence to argue that organisms are systems of cells and various factors affect their growth.</li> <li>Using patterns to model the flow of energy and matter in organisms and through ecosystems.</li> <li>Using models to describe how the structure and function of genes causes variations.</li> <li>Using patterns in fossil data to compare organisms and infer evolutionary relationships.</li> <li>Evaluating solutions that maintain biodiversity and stabilize ecosystems.</li> </ul>	<p>In physical sciences, student performance includes:</p> <ul style="list-style-type: none"> <li>Developing models and analyzing data to describe atoms, molecules, and chemical changes.</li> <li>Asking questions and investigating motion caused by contact and non-contact forces.</li> <li>Using data and constructing arguments to describe kinetic and thermal energy changes in systems.</li> <li>Developing and using models to describe how waves travel in patterns, transfer energy, and interact.</li> <li>Designing devices to optimize collisions, forces, and energy transfers.</li> </ul>	<p>In Earth/space sciences, student performance includes:</p> <ul style="list-style-type: none"> <li>Using evidence to model Earth and other objects as part of a universe with movements controlled by gravity.</li> <li>Using rock strata evidence to explain Earth's geologic history.</li> <li>Modeling the cycling of matter and energy to explain changes in Earth's surface features, weather, and climate.</li> <li>Using evidence to describe how human activities are affected by Earth's resources.</li> <li>Designing solutions to problems caused by using Earth's resources.</li> </ul>



Student Name: **Jonathan Doe**  
 Grade: **8**  
 Date of Birth: **05/20/2007**  
 SASID: **1234567892**

School: **Demo Middle School**  
 District: **Demo District**  
 Test Year: **2021**

## Comparison to Student's School and District

Results below show Jonathan's scores compared with the school and district averages on the NGSS assessment.

Student's Score	791	<div style="width: 33%;"></div>		
School Average	805	<div style="width: 40%;"></div>		
District Average	808	<div style="width: 43%;"></div>		
		<b>Level 1 Does Not Meet (700–771)</b>	<b>Level 2 Approaching (772–797)</b>	<b>Level 3 Meets (798–841)</b>
				<b>Level 4 Exceeds (842–899)</b>

## Supporting Your Child's Success in Science, Technology, Engineering, and Mathematics (STEM)

The NGSS enable teachers to offer interactive instruction that encourages all students to plan and conduct investigations, develop and use models, analyze data, and engage in critical thinking and problem solving as they learn about the world around them.

You can support this instruction by:

- Encouraging your child's interests and abilities in STEM learning.
- Being informed about the STEM educational programs and the specific instruction that your child is receiving in your school.
- Supporting your child's curiosity and learning opportunities through STEM-related books, television shows, museums, nature centers, and enrichment activities in your community.
- Encouraging your child to participate in extracurricular STEM activities such as clubs, field trips, after-school programs, and competitions.

## Frequently Asked Questions

### Where can I find more information about NGSS?

Parent Guides can be found at <https://www.nextgenscience.org/parentguides>.

### Where can I find more information about NGSS test design and content?

For more information on the test design and content, go to <https://ct.portal.airast.org> and click on NGSS Assessment.

### Where can I find more information about school and district performance?

Further information about school and district academic performance can be found at <http://edsight.ct.gov>.