



Student Name: **Jennifer Doe**
 Grade: **5**
 Date of Birth: **05/20/2011**
 SASID: **1234567891**

School: **Demo Elementary School**
 District: **Demo District**
 Test Year: **2022**

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 Jennifer's achievement on the NGSS assessment aligned to science standards from Grades 3 through 5. Your child completed this assessment in spring 2022.

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 Jennifer's Total Scale Score=549

Overall scores from the NGSS assessment are reported in scale-score units with a range of 400–599. 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 Jennifer were tested again in science, the new scale score would probably fall between 534 and 564.

Jennifer scored at **Level 4** on the NGSS assessment.




Science				✓
	Level 1 Does Not Meet (400–467)	Level 2 Approaching (468–497)	Level 3 Meets (498–534)	Level 4 Exceeds (535–599)

Level 4: Exceeds the Achievement Standard

Jennifer has exceeded the achievement standard for science expected for this grade. Students performing at this level are demonstrating advanced progress toward mastery of science knowledge and skills. Students performing at this level are on track for likely success in the next grade.

Areas of Knowledge and Skills

The results below show how Jennifer 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
 Approaching Standard	 Below Standard	 Above Standard
<p>In life sciences, student performance includes:</p> <ul style="list-style-type: none"> Using evidence to argue that organisms have structures and processes to help them survive, grow, and reproduce. Developing models to describe life cycles and the movement of matter in ecosystems. Using patterns to explain that traits are inherited, affect survival, and can be influenced by the environment. Analyzing and interpreting fossil data to describe organisms and environments over time. Evaluating solutions to problems caused by environmental changes. 	<p>In physical sciences, student performance includes:</p> <ul style="list-style-type: none"> Using the results of investigations to identify and describe changes in matter. Using patterns in data to investigate magnets and changes in the motion of objects caused by forces. Investigating various ways that energy can be transferred. Developing models to show that waves cause objects to move and be seen. Designing devices that maximize energy conversion, use magnets, or transfer information. 	<p>In Earth/space sciences, student performance includes:</p> <ul style="list-style-type: none"> Using data from patterns in shadows, daylight, stars, and fossils to explain Earth's movement in space and history. Investigating and modeling interactions among Earth's systems that cause weather, climate, landforms, and other geological events. Using evidence to describe interactions between human activities and Earth processes. Evaluating design solutions to reduce the impact of natural hazards and processes on humans.



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Comparison to Student's School and District

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

Student's Score	549				
School Average	504				
District Average	506				
		Level 1 Does Not Meet (400-467)	Level 2 Approaching (468-497)	Level 3 Meets (498-534)	Level 4 Exceeds (535-599)

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.cambiumast.com> 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>.