



Maryland Comprehensive Assessment Program

FIRSTNAME M. LASTNAME

Date of Birth: 07/20/2009 ID: MA03040032 Grade: 8

Local Education Agency (LEA): SAMPLE DISTRICT NAME

SAMPLE SCHOOL ONE NAME

MARYLAND

SPRING 2024

GRADE 8 MISA

Science Assessment Report, 2023-2024

This report shows whether FIRSTNAME met grade band expectations in science and is on track for the next grade band. The items on the assessment measure your child's understanding of concepts and practices in science and require critical thinking to find solutions to problems. The Maryland Integrated Science Assessment (MISA) is one of several ways to help families and teachers understand how well your child is acquiring science concepts and practices.

How Can You Use This Report?

Ask your child's teachers:

- What do you see as my child's strengths and areas for improvement in science?
• How can these assessment results be used to help my child make progress in science?

To learn more about the Maryland Science Program visit http://marylandpublicschools.org/about/Pages/DCAA/Science/index.aspx.

For Practice Tests visit Test Preparation on http://support.mdassessments.com.

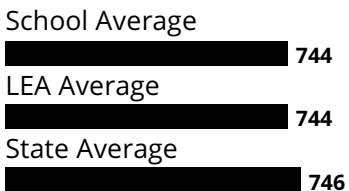
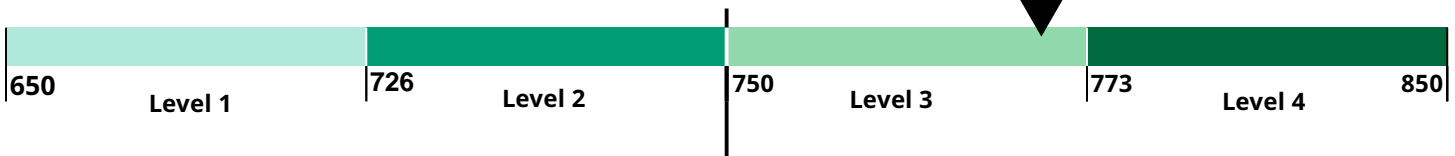
How Did FIRSTNAME Perform Overall?

Performance Level 3

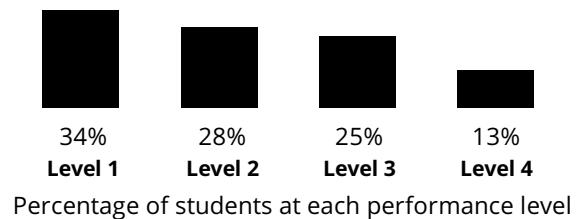
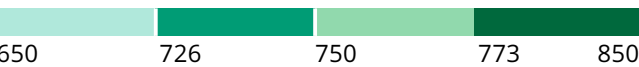
- Level 4 Distinguished Learner
Level 3 Proficient Learner
Level 2 Developing Learner
Level 1 Beginning Learner

A description of the Performance Levels can be found on the back of this page.

Your child's score 770



How Students in Maryland Performed



How are assessment results used?

Results from the assessment give your child's teacher, school, and school district information about their science performance, and provide you with some insight as to your child's level of learning. These results never stand alone, but can be used with other assessments and class work when gauging student performance.

## How Did Your Child Perform in the Three Dimensions of Science?

### Disciplinary Core Ideas (DCI)

#### Physical Sciences

Your child performed about the same as other **Proficient or Distinguished Learners**. Students demonstrate proficiency by exhibiting an understanding of matter and its interactions, motion and stability, forces and interaction, energy, waves and their applications in technologies for information transfer.

#### Life Science

Your child performed about the same as other **Developing Learners**. Students demonstrate proficiency by exhibiting an understanding of how the structures and processes function from molecules to organisms, the interactions, energy, and dynamics of ecosystems, the inheritance and variation of traits in heredity, and the unity and diversity of biological evolution.

#### Earth and Space Sciences

Your child performed about the same as other **Proficient or Distinguished Learners**. Students demonstrate proficiency by exhibiting an understanding of Earth's place in the universe, Earth's systems, and Earth and human activity.

#### LEGEND

Your child performed about the same as:



**Distinguished or Proficient Learners**



**Developing Learners**



**Beginning Learners**

#### Science and Engineering Practices (SEP)

Your child performed about the same as other **Developing Learners**. Students demonstrate proficiency by exhibiting an understanding of the practices scientists and engineers use to investigate theories about the natural world giving them opportunities to immerse themselves in these practices and explore why they are central to science and engineering.

#### Crosscutting Concepts (CCC)

Your child performed about the same as other **Beginning Learners**. Students demonstrate proficiency by exhibiting an understanding of how scientists connect and explain knowledge from various science disciplines and engineering practices into a coherent and scientifically based view of the world.

### Science Performance Level Descriptions

**Level 4 Distinguished Learner:** *Distinguished learners demonstrate advanced proficiency* in applying scientific thinking to understand the natural world and engineering design to find solutions to problems. Learners at this level think critically about physical and chemical interactions that affect the world around them; factors that affect organism survival and reproduction; factors that influence the Earth and our solar system; and how to optimize design solutions. Distinguished learners are well prepared in asking questions that lead to explanations supported by evidence, using mathematics to analyze data, and applying scientific ideas to develop, test, compare, and improve design solutions.

**Level 3 Proficient Learner:** *Proficient learners demonstrate proficiency* in applying scientific thinking to understand the natural world and engineering design to find solutions to problems. Learners at this level explain physical and chemical interactions that affect the world around them; factors that affect organism survival and reproduction; factors that influence the Earth and our solar system; and how to optimize design solutions. Proficient learners are prepared in asking questions that can lead to reasonable predictions, using mathematics to describe data, and applying scientific ideas to evaluate a design solution.

**Level 2 Developing Learner:** *Developing learners demonstrate partial proficiency* in applying scientific thinking to understand the natural world and engineering design to find solutions to problems. Learners at this level describe physical and chemical interactions that affect the world around them; factors that affect organism survival and reproduction; factors that influence the Earth and our solar system; and how to optimize design solutions. Developing learners need additional academic support in asking questions about changes in an investigation, organizing simple data sets that reveal patterns, and identifying scientific evidence used to support a claim.

**Level 1 Beginning Learner:** *Beginning learners do not yet demonstrate proficiency* in applying scientific thinking to understand the natural world and engineering design to find solutions to problems. Learners at this level identify physical and chemical interactions that affect the world around them; factors that affect organism survival and reproduction; factors that influence the Earth and our solar system; and how to optimize design solutions. Beginning learners need substantial academic support in asking questions about changes in an investigation, organizing simple data sets that reveal patterns, and identifying scientific evidence used to support a claim.