



Maryland Comprehensive Assessment Program

FIRSTNAME M. LASTNAME

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

Local Education Agency (LEA): SAMPLE LEA NAME COUNTY

SAMPLE SCHOOL ONE NAME

MARYLAND

SPRING 2023

GRADE 8 MISA

Science Assessment Report, 2022-2023

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>.

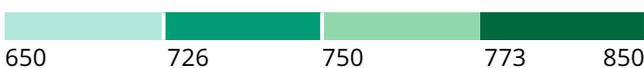
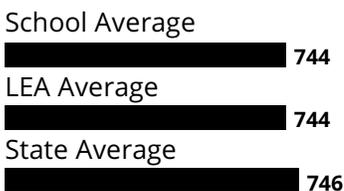
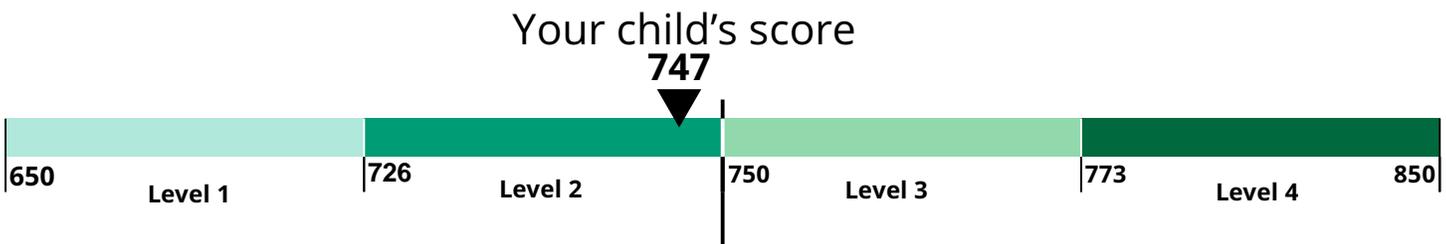
For Practice Tests visit Test Preparation on <http://support.mdassessments.com>.

How Did FIRSTNAME Perform Overall?

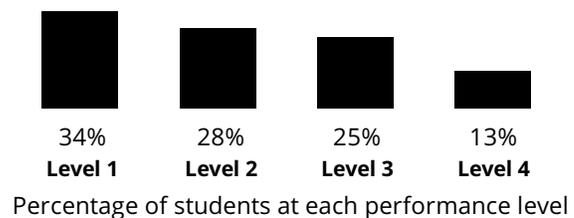
Performance Level 2

- 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.



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 **Developing 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 **Beginning 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 **Developing 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 **Beginning 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 **Developing 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 Learners: Students who perform at this level demonstrate an effective ability to apply scientific thinking to understand the natural world and apply engineering design to find solutions to problems. Students demonstrate the ability to 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. Students apply skills such as 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 Learners: Students who perform at this level demonstrate the ability to apply scientific thinking to understand the natural world and apply engineering design to find solutions to problems. Students demonstrate the ability to 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. Students use skills such as 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 Learners: Students who perform at this level are approaching the ability to apply scientific thinking to understand the natural world and apply engineering design to find solutions to problems. Students are beginning to demonstrate the ability to 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. Students are beginning to demonstrate skills such as 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 Learners: Students who perform at this level demonstrate an emerging ability to apply scientific thinking to understand the natural world and engineering design to find solutions to problems. Students are beginning to 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. Students are beginning to develop skills such as asking questions about changes in an investigation, organizing simple data sets that reveal patterns, and identifying scientific evidence used to support a claim.