## Science and Technology/Engineering

Your Child's Achievement Level:
Your Child's Score:


The horizontal gray bar in the graphic above shows the range of likely scores your child would receive if they took the test multiple times.

| Achievement |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Your Child's |  | Year | Average Score |  |  |
| Grade | Score |  | School | District | State |
|  |  | $\mathbf{2 0 2 3}$ |  |  |  |

## Comparing Your Child's Results to

School, District, and State Results
The tables on the left and below show how your child performed on their test, compared to 9 th- and 10th-grade students who took
the Biology or Introductory Physics test for the first time in 2023 in their school, district, and state.

How your child performed in each reporting category, on the science practices, and on each test question

| Reporting Category | Points Earned by Your Child | Average Points in School | Average Points in District | Average Points in State | Total Possible Points | Average Points <br> at Meeting <br> Expectations* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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Individual Test Questions Go online to access released test questions at www.doe.mass.edu/mcas/testitems.html.

| Question Number | 1 | 2 | 3 | 4 | 56 | 6 | 8 | 9 | 10 | 1 | 1213 | 14 | 15 | 1617 | 18 | 19 | 21 | 22 | 23.2 | 25 | 26 | 28 | 29 | 331 | 32 | 3 | 343 | 36 | 38 | 39 | 40 | 4142 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reporting Category |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pracice Category |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Points Eamed |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

[^0] C = Evidence, Reasoning, and Modeling: "/" = Practice Category Not Assessed

Spring 2023 MCAS
Parent/Guardian Report
O

| Name: | District |
| :--- | :--- |
| SASID: | School |

Date of Birth:
School:
Local Student ID:
This report provides your child's results from the spring 2023 Massachusetts Comprehensive Assessment System (MCAS) grade 10 test administration in English Language Arts (ELA) and Mathematics, and from one of the Science and Technolsg/Engineering (STE) subject tests that were administered in Biology and Introductory Physics. Students are eligible to take the high school STE test in the 9th or 10th grade.
The following MCAS graduation requirements are determined by a student's original graduating class, which is assigned when they first enter a Massachusetts high school (grade 9 for most students).
Students in the class of 2025 must meet the following requirements in ELA, Mathematics, and STE to be eligible for a high school diploma (in addition to meeting all local graduation requirements):

- earn a scaled score of 472 or higher on the MCAS ELA test or retest; or earn a scaled score of 455-471 on the ELA test or retest and fulfill the requirements of an Educational Proficiency Plan (EPP) in ELA.
- earn a scaled score of 486 or higher on the Mathematics test or retest; or earn a scaled score of 469-485 on the Mathematics test or retest and fulfill the requirements of an Educational Proficiency Plan (EPP) in Mathematics.
earn a scaled score of 467 or higher on the Biology test; or earn a scaled score of 470 or higher on the Introductory Physics test; or earn a scaled score of 220 (Needs Improvement) or higher on the legacy Chemistry test or Technology/Engineering test.
Page 4 of this report also includes MCAS Science Practices as a Reporting Category, in addition to the content reporting categories for each item. More information is available at www.doe.mass.edu/mcas/tdd/practice-categories.htm.
Students may also participate in MCAS for scholarship purposes. Students' first attempt at taking a high school test in ELA, Mathematics, and STE will be used for the eligibility criteria for the John and Abigail Adams Scholarship. More information about scholarships is available at www.doe.mass.edu/scholarships.
The boxes below show your child's Competency Determination status for graduation in each subject. If your child requires an Educational Proficiency Plan in ELA or Mathematics, information on the requirements is available at www.doe.mass.edu/assessment/epp. Information about graduation requirements is available at www.doe.mass.edu/mcas/graduation.html. If you have questions about your child's performance, we encourage you to meet with your child's teacher(s) to discuss the results.

Your Child's Overall Results in Grade

| English Language Arts | Mathematics | Science and Tech/ <br> Engineering |
| :---: | :---: | :---: |
| Score | Score | Score |
| Growth Percentile | Growth Percentile |  |
| Details on page 2 | Details on page 3 | Details on page 4 |

What is MCAS and how are test results used?
MCAS is the Commonwealth's standards-based assessment program. MCAS has the following primary purposes

- To help families see whether their children are making expected academic progress
- To help educators identify areas of the curriculum where students are learning well and areas where students may need additional assistance to meet grade-level expectations
To help the state direct resources to schools that need support
At the high school level, to determine whether students have met the state requirements for the Competency Determination (that is, whether students are eligible for a high school diploma) and to determine whether students have met the state's scholarship eligibility

Where can you find more information?
www.doe.mass.edu/mcas/parents/

Your Child's Achievement Level:
Your Child's Score:
 this subject.

## 2023 Student Growth Percentiles

 The student growth percentile (1-99) compares your child's progress to the progress of other students with similar prior MCAS scores.| Lower Growth | Your Child | Higher Growth |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: |
|  |  |  |  |  |  |  |
|  |  | School |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  | District |  |  |  |  |
|  |  |  |  |  |  |  |
| 1 | 20 | 40 | 60 | 80 |  | 99 |

How your child performed in each reporting category and on each individual test question

| Reporting Category | Points Earned by Your Child | Average Points in School | Average Points in District | Average Points in State | Total <br> Possible <br> Points | Average Points at Meeting Expectations* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reading (RE) |  |  |  |  |  |  |
| Language (LA) + |  |  |  |  |  |  |
| Writing (WR) ${ }^{\text {a }}$ |  |  |  |  |  |  |
| + The Language reporting $\ddagger$ The Writing reporting c | ard English conven development scor | ions scores from essay from essays. |  | rage number of poin core of 500, at the low | ts earned sta end of the | by students at or nea Expectations level. |

The Language reporting category includes the standard English conventions scores from estre
The Writing reporting category is based on the idea development scores from essays
Average number of points earned statewide by students at or near
a score of 500 a t the low end of the Meeting Expectations level.

## Individual Test Questions

Go online to access released test questions at wuw.doe.mass.edu/mcas/testitems.htm.

| Question Number | 1 | 2 | 3 | 4 | 56 | 67 | ${ }_{\text {c }}^{8}$ | ${ }_{10}^{8}$ | 9 | 10 | 12 | 13 | 1415 | 16 | 17 | 18 | 19 | 202 | ${ }^{22}$ | 10 | 24 |  | 26 | 28 | 29 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reporing Category |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Points Eaned |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Your Child's Achievement Level:
Your Child's Score:


- The horizontal gray bars in the graphics above and below show the range of likely scores your child


## Achievement

## This table shows how your child performed compared to students in

| Your Child's |  | Year | Average Score |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Grade | Score |  | School | District | State |
|  |  | 2023 |  |  |  |
|  |  | 2021 |  |  |  |
|  |  | 2019 |  |  |  |

2023 Student Growth Percentiles
The student growth percentile (1-99) compares your childs progress to the progress of other students with similar prior MCAS
scores scores.

How your child performed in each reporting category and on each individual test question

| Reporting Category | Points Earned by Your Child | Average Points in School | Average Points in District | Average Points in State | Total Possible Points | Average Points at Meeting Expectations |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number and Quantity (NQ) |  |  |  |  |  |  |
| Algebra and Functions (AF) |  |  |  |  |  |  |
| Geometry (GE) |  |  |  |  |  |  |
| Statistics and Probability (SP) |  |  |  |  |  |  |

Individual Test Questions
Go online to access released test questions at www.doe.mass.edu/mcas/testitems.htm.


[^1]
[^0]:    

[^1]:    Key Points Farned: $x$ ( $y=x$ points earned out of $y$ possible points: Blank space $=$ no answer

