

# **PRINCETON HIGH SCHOOL MATHEMATICS DEPARTMENT 2019- 2020**

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## **ADVANCEMENT OF A COURSE LEVEL PACKET including Graduation Requirements**

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**THIS PACKET IS DUE TO THE MATHEMATICS SUPERVISOR BY NO LATER THAN  
MAY 3, 2019.**

**PACKETS RECEIVED AFTER THE DEADLINE MAY NOT BE ACCEPTED.**

## Advancement Over a Course From the Princeton High School Program of Studies for 2019-2020, page 5:

### 6. Advancing of a Course Level (mathematics, science, and world languages):

Advancement of course level allows a student to bypass a prerequisite course by pursuing a **pre-approved**, organized course of study at a recognized institution outside the school day or school year. A student may advance a course level in a given sequence of courses found in mathematics, science (AP courses only) and world language with the understanding that:

\*a student must be earning an average of a “B+” or better in the current course.

**\*Exception: For students planning to enroll in Pre-Cal Acc before 10<sup>th</sup> grade, an A+- is required in the current and previous math courses.**

\*A student takes a **pre-approved** 120-hour advancing credit course in the level being bypassed.

\*A student submits the Advancement of a Course Level Form to the appropriate supervisor before **May 3, 2019**. The form is available on-line.

A student submits a description of the anticipated coursework to the appropriate supervisor. The description must include the number of hours the course meets per week and the number of weeks of study.

\*A science course must have a lab component. For AP Science courses, the student must already have earned credit in a lab science course at PHS.

\*A language course must specify how the development of oral proficiency will occur.

A student submits notebooks, quizzes, tests, and lab reports compiled during the course. The supervisor reviews each student’s coursework as part of the placement process.

\*A student will not be granted permission to move ahead to the next level unless s/he takes the PHS final exam (and possibly a mid-year exam) in the bypassed course.

\*A student takes the exam only once and must earn a score of **at least 87%** to be **considered** for advancement.

\*In mathematics, a student must also meet the specific requirements for eligibility for each course.

\*For advancing in world languages, the exam includes a proficiency test consisting of an interview or presentation in the target language as well as reading and writing tasks.

\*A student registers with the supervisor to take the exam on either **August 14, 2019 or August 21, 2019**. Test locations and times will be posted on the PHS website.

\*An approved course taken at other institutions for the purpose of advancing a level may be reflected on a student’s transcript, but will not be awarded credit. Please have the institution send official documentation to the PHS Guidance Office. Course grades will not be factored into the GPA.

\*Priority for placement into courses is given to those students who have enrolled in the course through the regular scheduling process.

\*Placement decisions are made at the building level by the supervisor in conjunction with the principal and are considered final.

## **Additional Information – Advancement over a course Mathematics**

1. Princeton Public Schools advancement of course application is separate from any registration forms required from the educational institution of your choosing. Princeton **ONLY** REQUIRES SUBMISSION OF THE ATTACHED APPLICATION WITH A SYLLABUS OF THE SELECTED SUMMER COURSE. **Princeton Public Schools does not endorse any specific institution for summer courses.**

**\*\*Please do not wait for approval of district advancement application prior to registering for a summer course.**

**\*\*Please do not submit summer institution registration forms to the district for approval. Note: the summer institution may offer courses for credit; however, PPS will only reflect courses taken on transcripts but will not award credit.**

2. Completed applications are necessary for the department to plan for possible schedule adjustments to class size. If the department does not receive a completed application by the deadline student may not be able to take the final exam and/or achieve approval for advancement.
3. Mathematics Final Exam testing will take place on either **Wednesday, August 14, 2019 or Wednesday, August 21, 2019 at:**  
**Princeton High School**  
**151 Moore Street**  
**Princeton, NJ 08540**  
Enter through the main entrance and follow the signs to the testing location.
4. Testing will begin **PROPTLY** at 9am on each exam date. Please plan accordingly. If you arrive after testing begins, you may not be able to enter the exam room.
5. All tests are multiple choice so please bring two #2 pencils on test day.
6. Scientific calculators are allowed on all exams. Graphing calculators will be allowed on Pre-Calculus exams.
7. You **will not** receive confirmation of your selected test date. Your name and final exam selection will be kept on a master list so preparations can be made prior to each test date.
8. Your guidance counselor will be notified of all final exam grades and subsequent schedule changes, if necessary. Please do not contact the math and/or guidance department asking for your grade.
9. You will receive notification of your grade and final course placement decision in the mail during the week following the second final exam test date. **Please do not contact the math and/or guidance department seeking grades.**
10. Please note: advancing over a course is an opportunity and will only be considered if **ALL** guidelines have been met.

Please register at the following link: <https://docs.google.com/forms/d/e/1FAIpQLSduW2lw4uh-bzsd0U2NikWFhxcyoxDgnnxjLIYhIF3DYq5Zng/viewform?vc=0&c=0&w=1>

## New Jersey High School Graduation Assessment Requirements

On August 3, 2016, the State Board of Education approved updated state regulations for the high school graduation assessment requirements in both English Language Arts/Literacy (ELA) and mathematics for the Classes of 2016 through 2021 and beyond. These new state regulations ([N.J.A.C. 6A:8-5.1](#)) became effective on September 6, 2016 and are detailed below. In this document, you will find charts containing the list of assessment requirements in both ELA and mathematics for the high school graduation Classes of 2018 through 2021.

### The Classes of 2018 and 2019

Students graduating as members of the Classes of 2018 and 2019 can meet graduation assessment requirements through any of these **three pathways**:

- (1) Achieve passing scores on high school level PARCC assessments;
- (2) Achieve scores defined in the table below on alternative assessments such as the SAT, ACT, or ACCUPLACER; or
- (3) Submit, through the district, a student portfolio appeal to the New Jersey Department of Education (NJDOE).

### The Class of 2020

Students in the Class of 2020 can demonstrate graduation assessment proficiency through:

- (1) Achieve passing scores on PARCC Algebra I and English Language Arts/Literacy (ELA) grade 10 assessments

**The following pathways are available to students who took all PARCC tests associated with the high school level courses for which they were eligible and received valid scores<sup>1</sup>:**

- (2) Achieve scores defined in the table below on alternative assessments such as the SAT, ACT, or ACCUPLACER, PARCC ELA 9, ELA 11, Geometry, Algebra II; or
- (3) Submit, through the district, a student portfolio appeal to the NJDOE.

### The Class of 2021 and Beyond

Starting with the Class of 2021, students will only have **two pathways** to meet the high school graduation assessments requirements:

- (1) Achieve passing scores on PARCC Algebra I and English Language Arts/Literacy (ELA) grade 10 assessments

**The following pathway is available to students who took all PARCC tests associated with the high school level courses for which they were eligible and received valid scores<sup>1</sup>:**

- (2) Submit, through the district, a student portfolio appeal to the NJDOE.

Each school year the NJDOE will determine the proficiency level and/or cut scores needed on the assessments to meet the graduation assessment requirements. It is also important to note that our students have always been able to meet graduation assessment requirements through an alternative assessment or pathway to graduation throughout New Jersey's forty-year history with a statewide assessment program and will continue to be able to do so. **Special Education students, whose Individualized Education Plans (IEPs) specify an alternative way to demonstrate proficiencies, will continue to follow the graduation assessment requirements set forth in their IEPs.**

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<sup>1</sup> "Eligible" is defined as a student who is enrolled in a high-school level course for which there is a PARCC test and receives a valid score. This includes the following courses: Algebra I, Geometry, Algebra II, ELA 9, ELA 10, and ELA 11.

## ELA and Math Assessment Requirements for the Class of 2018

*This document continues to reflect current state requirements (N.J.A.C. 6A:8-5.1(f)), effective September 6, 2016.*

*The format of this document was updated in December 2018.*

Pathways Available	English Language Arts/Literacy (ELA)	Mathematics
<b>First Pathway:</b> <b><i>Take and Pass a PARCC Test</i></b>	PARCC ELA Grade 9 $\geq 750$ (Level 4), <i>or</i> PARCC ELA Grade 10 $\geq 750$ (Level 4), <i>or</i> PARCC ELA Grade 11 $\geq 725$ (Level 3)	PARCC Algebra I $\geq 750$ (Level 4), <i>or</i> PARCC Geometry $\geq 725$ (Level 3), <i>or</i> PARCC Algebra II $\geq 725$ (Level 3)
<b>Second Pathway:</b> <b><i>Meet Designated Cut Score on One of the Alternative Assessments</i></b>	SAT Critical Reading (taken before 3/1/16) $\geq 400$ , <i>or</i> SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later) $\geq 450$ , <i>or</i> SAT Reading Test (taken 3/1/16 or later) $\geq 22$ , <i>or</i> ACT Reading or ACT PLAN Reading <sup>2</sup> $\geq 16$ , <i>or</i> ACCUPLACER WritePlacer $\geq 6$ , <i>or</i> ACCUPLACER WritePlacer ESL $\geq 4$ , <i>or</i> PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15) $\geq 40$ , <i>or</i> PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later) $\geq 22$ , <i>or</i> ACT Aspire Reading <sup>2</sup> $\geq 422$ , <i>or</i> ASVAB-AFQT Composite $\geq 31$	SAT Math (taken before 3/1/16) $\geq 400$ , <i>or</i> SAT Math Section (taken 3/1/16 or later) $\geq 440$ , <i>or</i> SAT Math Test (taken 3/1/16 or later) $\geq 22$ , <i>or</i> ACT or ACT PLAN Math <sup>2</sup> $\geq 16$ , <i>or</i> ACCUPLACER Elementary Algebra $\geq 76$ , <i>or</i> PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15) $\geq 40$ , <i>or</i> PSAT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later) $\geq 22$ , <i>or</i> ACT Aspire Math <sup>2</sup> $\geq 422$ , <i>or</i> ASVAB-AFQT Composite $\geq 31$
<b>Third Pathway: <i>Portfolio Appeals</i></b>	Meet the criteria of the NJDOE Portfolio Appeal for ELA	Meet the criteria of the NJDOE Portfolio Appeal for Math

<sup>2</sup> Test is no longer administered but can be used for the graduating year.

## ELA and Math Assessment Requirements for the Class of 2019<sup>3</sup>

*This document continues to reflect current state requirements (N.J.A.C. 6A:8-5.1(f)), effective September 6, 2016. The format of this document was updated and Class of 2019 cut scores were included in December 2018. Please note the Class of 2019 cut scores are the same cut scores available to the Class of 2018.*

Pathways Available	English Language Arts/Literacy (ELA)	Mathematics
<b>First Pathway: Take and Pass a PARCC Test</b>	PARCC ELA Grade 9 $\geq$ 750 (Level 4), <i>or</i> PARCC ELA Grade 10 $\geq$ 750 (Level 4), <i>or</i> PARCC ELA Grade 11 $\geq$ 725 (Level 3)	PARCC Algebra I $\geq$ 750 (Level 4), <i>or</i> PARCC Geometry $\geq$ 725 (Level 3), <i>or</i> PARCC Algebra II $\geq$ 725 (Level 3)
<b>Second Pathway: Meet Designated Cut Score on One of the Alternative Assessments</b>	SAT Critical Reading (taken before 3/1/16) $\geq$ 400, <i>or</i> SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later) $\geq$ 450, <i>or</i> SAT Reading Test (taken 3/1/16 or later) $\geq$ 22, <i>or</i> ACT Reading or ACT PLAN Reading <sup>4</sup> $\geq$ 16, <i>or</i> ACCUPLACER WritePlacer $\geq$ 6, <i>or</i> ACCUPLACER WritePlacer ESL $\geq$ 4, <i>or</i> PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15) $\geq$ 40, <i>or</i> PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later) $\geq$ 22, <i>or</i> ACT Aspire Reading <sup>4</sup> $\geq$ 422, <i>or</i> ASVAB-AFQT Composite $\geq$ 31	SAT Math (taken before 3/1/16) $\geq$ 400, <i>or</i> SAT Math Section (taken 3/1/16 or later) $\geq$ 440, <i>or</i> SAT Math Test (taken 3/1/16 or later) $\geq$ 22, <i>or</i> ACT or ACT PLAN Math <sup>4</sup> $\geq$ 16, <i>or</i> ACCUPLACER Elementary Algebra $\geq$ 76, <i>or</i> Next-Generation ACCUPLACER Quantitative Reasoning, Algebra, and Statistics (QAS) (beginning January 2019) <sup>5</sup> $\geq$ 255, <i>or</i> PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15) $\geq$ 40, <i>or</i> PSAT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later) $\geq$ 22, <i>or</i> ACT Aspire Math <sup>4</sup> $\geq$ 422, <i>or</i> ASVAB-AFQT Composite $\geq$ 31
<b>Third Pathway: Portfolio Appeals</b>	Meet the criteria of the NJDOE Portfolio Appeal for ELA	Meet the criteria of the NJDOE Portfolio Appeal for Math

<sup>3</sup> These summarize the current rules governing state assessment in New Jersey. The proposed amendments to N.J.A.C. 6A:8 will not affect the requirements for the Class of 2019.

<sup>4</sup> Test is no longer administered but can be used for the graduating year.

<sup>5</sup> Beginning on **Monday, January 28, 2019**, classic ACCUPLACER tests will no longer be available. QAS will replace ACCUPLACER Elementary Algebra.

## ELA and Math Assessment Requirements for the Class of 2020<sup>6</sup>

*This document continues to reflect current state requirements (N.J.A.C. 6A:8-5.1(f)), effective September 2016. The format of this document was updated December 2018.*

Pathways Available	English Language Arts/Literacy (ELA)	Mathematics
<b>First Pathway: Take and Pass a PARCC Test</b>	Take and Pass PARCC ELA Grade 10 $\geq$ 750 (Level 4)	Take and Pass PARCC Algebra I $\geq$ 750 (Level 4) <sup>7</sup>

*The Pathways below are only available if a student took all PARCC tests associated with the high school level courses for which they were eligible and received valid scores.<sup>8</sup>*

Pathways Available	English Language Arts/Literacy (ELA)	Mathematics
<b>Second Pathway: Meet Designated Cut Score on One of the Alternative Assessments</b>	PARCC ELA Grade 9 $\geq$ 750 (Level 4), <i>or</i> PARCC ELA Grade 11 $\geq$ 725 (Level 3), <i>or</i> SAT Critical Reading (taken before 3/1/16), <i>or</i> SAT Evidence-Based Reading and Writing Section (taken 3/1/16 or later), <i>or</i> SAT Reading Test (taken 3/1/16 or later), <i>or</i> ACT Reading or ACT PLAN Reading <sup>9</sup> , <i>or</i> ACCUPLACER WritePlacer, <i>or</i> ACCUPLACER WritePlacer ESL, <i>or</i> PSAT10 Reading or PSAT/NMSQT Reading (taken before 10/1/15), <i>or</i> PSAT10 Reading or PSAT/NMSQT Reading (taken 10/1/15 or later), <i>or</i> ACT Aspire Reading <sup>9</sup> , <i>or</i> ASVAB-AFQT Composite	PARCC Geometry $\geq$ 725 (Level 3), <i>or</i> PARCC Algebra II $\geq$ 725 (Level 3), <i>or</i> SAT Math (taken before 3/1/16), <i>or</i> SAT Math Section (taken 3/1/16 or later), <i>or</i> SAT Math Test (taken 3/1/16 or later), <i>or</i> ACT or ACT PLAN Math <sup>9</sup> , <i>or</i> ACCUPLACER Elementary Algebra, <i>or</i> Next-Generation ACCUPLACER Quantitative, Reasoning, Algebra, and Statistics (QAS) (beginning January 2019) <sup>10</sup> , <i>or</i> PSAT10 Math or PSAT/NMSQT Math (taken before 10/1/15), <i>or</i> PSAT10 Math or PSAT/NMSQT Math (taken 10/1/15 or later), <i>or</i> ACT Aspire Math <sup>9</sup> , <i>or</i> ASVAB-AFQT Composite
<b>Third Pathway: Portfolio Appeals</b>	Meet the criteria of the NJDOE Portfolio Appeal for ELA	Meet the criteria of the NJDOE Portfolio Appeal for Math

<sup>6</sup> These summarize the current rules governing state assessment in New Jersey. Amendments to N.J.A.C. 6A:8, Standards and Assessment, were moved to proposal level by the NJ State Board of Education on October 3, 2018. The State Board's public comment period closes January 7, 2019; email [stateboard@doe.nj.gov](mailto:stateboard@doe.nj.gov) with feedback.

<sup>7</sup> The NJDOE is providing [flexibility to meet the math assessment requirement](#) for students in the Classes of 2020 and 2021 who completed an Algebra I course prior to the September 6, 2016 effective date of the new high school assessment regulations.

<sup>8</sup> "Eligible" is defined as a student who is enrolled in a high-school level course for which there is a PARCC test and receives a valid score. This includes the following courses: Algebra I, Geometry, Algebra II, ELA 9, ELA 10, and ELA 11.

<sup>9</sup> Test is no longer administered but can be used for the graduating year.

<sup>10</sup> Beginning on **Monday, January 28, 2019**, classic ACCUPLACER tests will no longer be available. QAS will replace ACCUPLACER Elementary Algebra.

## ELA and Math Assessment Requirements for the Class of 2021<sup>11</sup>

*This document continues to reflect current state requirements (N.J.A.C. 6A:8-5.1(f)), effective September 2016. The format of this document was updated December 2018.*

Pathways Available	English Language Arts/Literacy (ELA)	Mathematics
<b>First Pathway: Take and Pass a PARCC Test</b>	Take and Pass PARCC ELA Grade 10 $\geq 750$ (Level 4)	Take and Pass PARCC Algebra I $\geq 750$ (Level 4) <sup>12</sup>

*The Pathway below is only available if a student took all PARCC tests associated with the high-school level courses for which they were eligible and received valid scores.<sup>13</sup>*

Pathways Available	English Language Arts/Literacy (ELA)	Mathematics
<b>Second Pathway: Portfolio Appeals</b>	Meet the criteria of the NJDOE Portfolio Appeal for ELA	Meet the criteria of the NJDOE Portfolio Appeal for Math

<sup>11</sup> These summarize the current rules governing state assessment in New Jersey. Amendments to N.J.A.C. 6A:8, Standards and Assessment, were moved to proposal level by the NJ State Board of Education on October 3, 2018. The State Board's public comment period closes January 7, 2019; email [stateboard@doe.nj.gov](mailto:stateboard@doe.nj.gov) with feedback.

<sup>12</sup> The NJDOE is providing [flexibility to meet the math assessment requirement](#) for students in the Classes of 2020 and 2021 who completed an Algebra I course prior to the September 6, 2016 effective date of the new high school assessment regulations.

<sup>13</sup> "Eligible" is defined as a student who is enrolled in a high-school level course for which there is a PARCC test and receive a valid score. This includes the following courses: Algebra I, Geometry, Algebra II, ELA 9, ELA 10, and ELA 11.

# PRINCETON HIGH SCHOOL MATH & CS COURSE SEQUENCES

	Mathematics						Computer Science		
8th grade / start pt.	Newly Registered/ Math 8/ Integrated Math			Algebra I Part 2 or Algebra I		Algebra II Accelerated	Geometry Accelerated	Algebra I	
9th grade:	Algebra I			Geometry		Geometry Accelerated	Algebra II Accelerated	Python	C.S. Principles
10th grade:	Geometry			Algebra II		Precalculus Accelerated		JAVA	
								Obj. Oriented Programming: JAVA	
11th grade:	Algebra 2			Precalculus		AP Statistics	AP Calc. AB or BC	AP CS: JAVA	
12th grade:	App. and modeling of math	Intro to Stats/ Discrete Math	Precalc.	AP Statistics	AP Calculus AB	Multivariable Calculus & Linear Algebra		Algorithms & Data Structures	

\*\*This chart displays typical progressions.

- Refer to the PHS Program of Studies for all prerequisite and qualifying criteria for each course shown.
- Students meeting the criteria may take Geometry and Algebra II concurrently.
- Students meeting the criteria may take any Calculus course and AP Statistics concurrently.
- AP Statistics demands strong analytical reading and writing skills.

\*\*Algebra I, Geometry, & Algebra II or an equivalent are required courses for high school graduation.