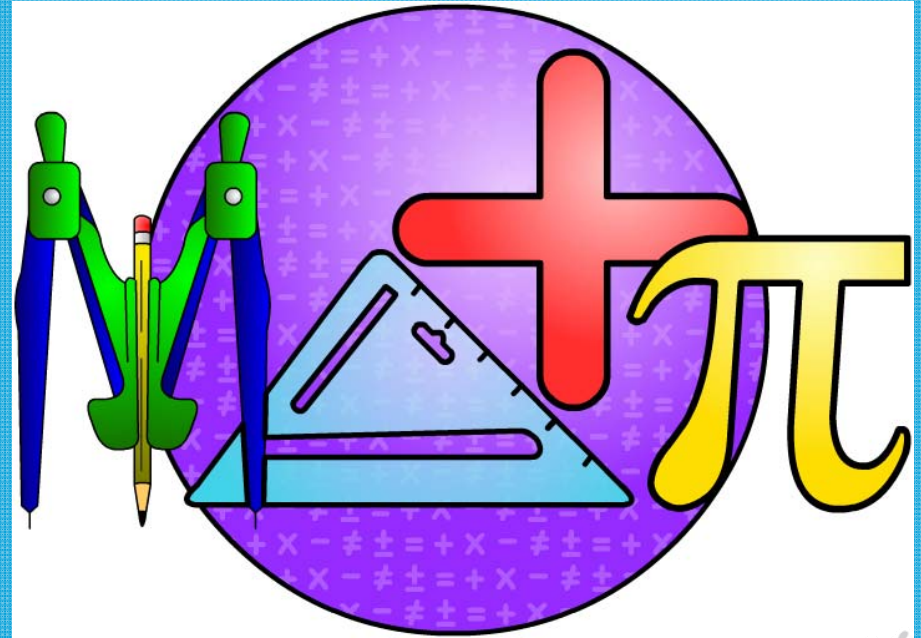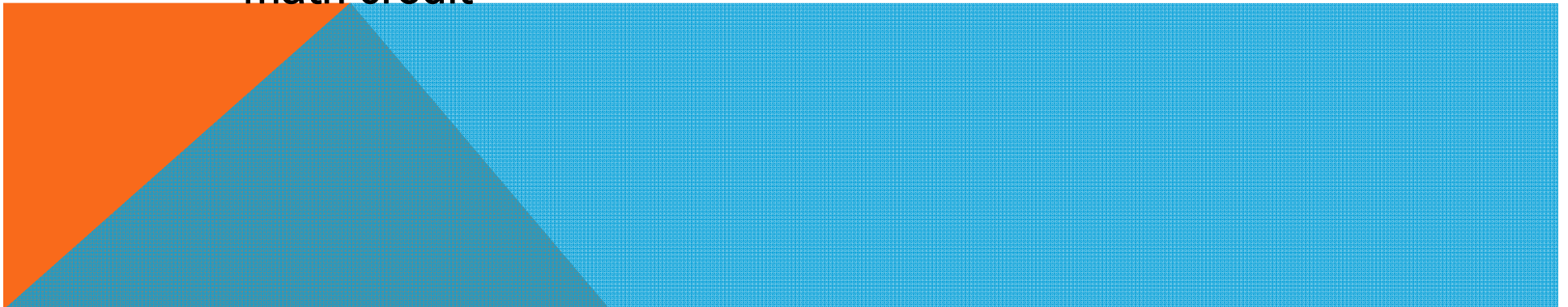# GRADUATION REQUIREMENTS

MATH

REQUIREMENTS

❑ Algebra I – 8th or 9th Grade
- **On-level** credit regardless of when taken
- Required for all students

❑ Geometry – *(On-level, K, or H)*

❑ An additional math course *(see chart on page 3)*

❑ +1 additional advanced math course
- All STEM endorsements - must take Algebra II
- Algebra II must be taken to earn the *Distinguished Level of Achievement* *(required to be eligible for the top 10% automatic admission to any Texas Public University and to be considered for the Texas Grant)*
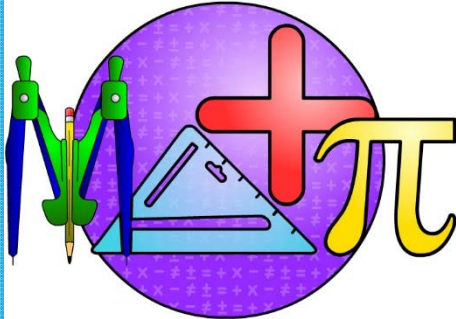- Computer Science II AP A or Accounting II may count as a math credit

Example #1

Example #2

	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Example #1	8th Grade Math	Algebra I (On-level)	Geometry (On-level, K, or H)	Algebraic Reasoning (On-level) ⟶	Algebra II (On-level, K, or H) **or** Statistics (On-level) - - -
				OR MMA *(Math Models with Applications)* ⟶	Algebraic Reasoning (On-level) **or** Algebra II (On-level, K, or H) **or** Statistics (On-level) - - -
				OR Algebra II (On-level, K, or H) ⟶	Precalculus (On-level, K, or H) **or** ISM Advanced Algebra (On-level) **or** ISM College Algebra (K or H) **or** Statistics AP (or H/AP) **or** AQR *(Advanced Quantitative Reasoning)* (K)
Example #2	Algebra I	Geometry (On-level, K, or H)	Algebra II (On-level, K, or H)	Precalculus (On-level, K, or H) ⟶	Calculus AB AP (or H/AP) **or** Calculus BC AP (or H/AP) **or** Statistics AP (or H/AP) **or** ISM College Algebra (K or H) **or** AQR (K) - - -
				OR ISM – College Algebra (K or H) ⟶	Precalculus (On-level, K, or H) **or** Statistics AP (or H/AP) **or** AQR (K) - - -
				OR Statistics AP (or H/AP) ⟶	Precalculus (On-level, K, or H) **or** ISM College Algebra (K or H) **or** AQR (K) - - -
				OR AQR (K) ⟶	Precalculus (On-level, K, or H) **or** ISM – College Algebra (K or H) **or** Statistics AP (or H/AP)

STUDENT TAKING
8TH GRADE MATH THIS YEAR

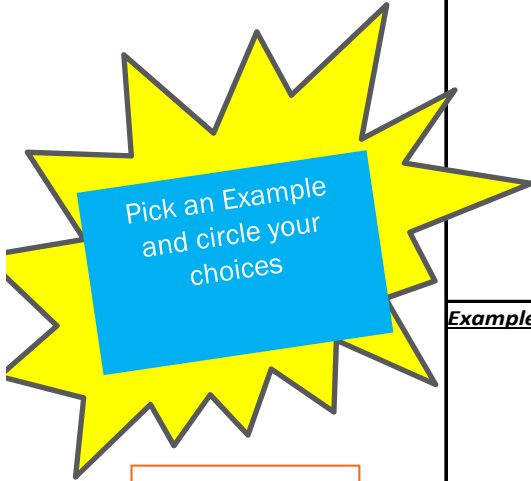|	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Example #1	8th Grade Math	Algebra I (On-level)	Geometry (On-level, K, or H)	Algebraic Reasoning (On-level) ⟶ **OR** MMA *(Math Models with Applications)* ⟶ **OR** Algebra II (On-level, K, or H) ⟶	Algebra II (On-level, K, or H) **_or_** Statistics (On-level) - - - Algebraic Reasoning (On-level) **_or_** Algebra II (On-level, K, or H) **_or_** Statistics (On-level) - - - Precalculus (On-level, K, or H) **_or_** ISM Advanced Algebra (On-level) **_or_** ISM College Algebra (K or H) **_or_** Statistics AP (or H/AP) **_or_** AQR *(Advanced Quantitative Reasoning)* (K)

STUDENT TAKING
ALGEBRA I THIS YEAR

	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Example #2	Algebra I	Geometry (On-level, K, or H)	Algebra II (On-level, K, or H)	Precalculus (On-level, K, or H) ⟶	Calculus AB AP (or H/AP) **or** Calculus BC AP (or H/AP) **or** Statistics AP (or H/AP) **or** ISM College Algebra (K or H) **or** AQR (K) - - -
				OR ISM – College Algebra (K or H) ⟶	Precalculus (On-level, K, or H) **or** Statistics AP (or H/AP) **or** AQR (K) - - -
				OR Statistics AP (or H/AP) ⟶	Precalculus (On-level, K, or H) **or** ISM College Algebra (K or H) **or** AQR (K) - - -
				OR AQR (K) ⟶	Precalculus (On-level, K, or H) **or** ISM – College Algebra (K or H) **or** Statistics AP (or H/AP)

Example #1

Example #2

Pick an Example and circle your choices

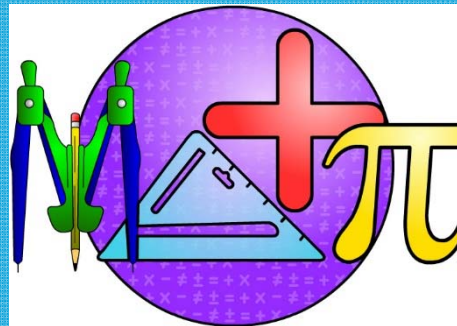|	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Example #1	8th Grade Math	Algebra I (On-level)	Geometry (On-level, K, or H)	Algebraic Reasoning (On-level) → OR MMA *(Math Models with Applications)* → OR Algebra II (On-level, K, or H) →	Algebra II (On-level, K, or H) **or** Statistics (On-level) - - - Algebraic Reasoning (On-level) **or** Algebra II (On-level, K, or H) **or** Statistics (On-level) - - - Precalculus (On-level, K, or H) **or** ISM Advanced Algebra (On-level) **or** ISM College Algebra (K or H) **K** **or** Statistics AP (or H/AP) **or** AQR *(Advanced Quantitative Reasoning)* (K)
Example #2	Algebra I	Geometry **K** (On-level, K, or H)	Algebra II **K** (On-level, K, or H)	Precalculus **K** (On-level, K, or H) → OR ISM – College Algebra (K or H) → OR Statistics AP (or H/AP) → OR AQR (K) →	Calculus AB AP (or H/AP) **or** Calculus BC AP (or H/AP) **or** Statistics AP (or H/AP) **or** ISM College Algebra (K or H) **or** AQR (K) - - - Precalculus (On-level, K, or H) **or** Statistics AP (or H/AP) **or** AQR (K) - - - Precalculus (On-level, K, or H) **or** ISM College Algebra (K or H) **or** AQR (K) - - - Precalculus (On-level, K, or H) **or** ISM – College Algebra (K or H) **or** Statistics AP (or H/AP)

SELECT MATH COURSES FOR ALL 4 YEARS OF HIGH SCHOOL

<u>Remember</u> – Algebra II must be taken to earn the Distinguished Level of Achievement (DLA)

DLA is required to be eligible for the top 10% automatic admission to any Texas Public University and to be considered for the Texas Grant.

EXAMPLES….

Example – Public Services, Option 1 – Education & Training

Periods	High School Credits Earned in Middle School	9th Grade	10th Grade	11th Grade	12th Grade
1		English I	English II	English III	English IV
2		Math: Algebra I	Math: Geometry	Math: Algebra II	Math: Advanced Algebra

Example – Multidisciplinary Studies, Option 1 – Four by Four (4 X 4)

Periods	High School Credits Earned in Middle School	9th Grade	10th Grade	11th Grade	12th Grade
1		English I K	English II K	English III K	English IV K
2		Math: Algebra I	Math: Geometry	Math: Algebraic Reasoning	Math: Algebra II

Example – STEM, Option 2 – Engineering

Periods	High School Credits Earned in Middle School	9th Grade	10th Grade	11th Grade	12th Grade
1		English I K	English II K	English III AP	English IV AP
2	Algebra I	Math: Geometry K	Math: Algebra II K	Math: Precalculus K	Math: Calculus AB AP