

7th Grade Mathematics Options

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Three Options

Math 7

- On Grade Level
- Prepares students for PreAlgebra or Algebra I
- Takes Math 7 SOL

Math 7 HN

- PreAlgebra Curriculum plus Honors Topics
- Prepares students for Algebra I or Algebra I Honors
- Takes PreAlgebra SOL

Algebra I HN

- Students must qualify by (1) taking advanced math in 6th grade; (2) a score of 91% on the IAAT, and (3) scoring Passed Advanced on the Math 7 SOL
- Students take Geometry Honors as 8th graders
- Takes Algebra SOL

Portrait of a Math 7 Student

- Good mathematics skills
- Good organizational and study skills
- Math may not be their favorite subject
- More of a concrete thinker. Example:
using a number line to add and subtract
integers.

$$-6 - (-9) =$$

Portrait of a Math 7 HN Student

- Likes math!
- Very strong in mathematics (will be skipping a full grade level of Math 7)
- Willingness to complete 30 minutes of math homework a night
- Strong organizational and study skills
- Able to think abstractly. Example: Why are there two solutions to this problem?

$$\sqrt{x} = 14$$

Portrait of an Algebra I HN Student

- LOVES math!
- Excellent mathematics skills, including basic computation facts
- Excellent organizational and study skills
- Willingness to complete 45 minutes of math homework a night
- Able to think abstractly, and communicate algebraically and in writing
- Willing and able to advocate for themselves
- Actually wants to take Algebra I HN



Math 7 or Math 7 HN?

PROS: If your child takes Math 7, then (s)he will have a strong Pre-Algebra foundation.

CONS: Math 7 does not cover all of the concepts from Math 7 HN /PreAlgebra, Your child will need to learn the following if going to Algebra in 8th grade.

- Multi-Step Equations
- Two-Step Inequalities
- Graphing Lines
- Advanced Functions

PROS: Math 7 HN is an exceptional foundation for Algebra I.

CONS: If your child takes Math 7 HN, (s)he will SKIP key Math 7 concepts, including:

Integer Operations
Proportional Reasoning
Two-Step Equations
Inequalities
Functions



Math 7 or Math 7 HNS?

Things to consider:

- Remember your child can still go from Math 7 to Algebra in 8th grade
 - Rushing into Math 7 HNS too early can cause frustration toward math
- Not sure if your child is ready?
 - Can your child take a released Math 7 SOL now and Pass Advanced?
- Our goal is to help your child grow a strong math background at **their own level and pace**

Math 7 HN or Algebra I HN?

PROS: Math 7 HN is an exceptional foundation for Algebra I.

CONS: If your child takes Math 7 HN, (s)he will SKIP key Math 7 concepts, including:

- Integer Operations
- Proportional Reasoning
- Two-Step Equations
- Inequalities
- Functions

PROS: Acceleration by two full years in mathematics for advanced students.

CONS: Most students do not come in with a firm foundation in:

- Integer Operations
- Proportional Reasoning
- Multi-Step Equations
- Inequalities
- Functions

Comparison of 3 Levels

Math 7

$$\frac{h}{2} + 5 = 27$$

Answer has one solution

$$(8 - 5)^2 \cdot 3 + 8 \div (-2)$$

Students learn Order of Operations in Math 7 that include negative numbers

Math 7 Honors

$$2(4x - 3) - 8 = 4 + 2x$$

Answer has one solution

$$\frac{-3[2^2 + (3 \cdot 6)]}{\sqrt{25} + (12 \div -2)}$$

Order of Operations with negative numbers is assumed prior knowledge, students start incorporating square roots, cubes, absolute value, and nesting

Algebra Honors

$$3(x + 1) + 1 + 2x = 2(2x + 2) + x$$

Answer has infinite solutions

$$\frac{\sqrt[3]{-216} \cdot [10 + (\sqrt{16} - 22)]^3}{8^2}$$

**Math 7 and PreAlgebra is assumed prior knowledge; students begin incorporating positive and negative cube roots*

The Big Question

What class is your child socially and emotionally ready for?

