



## Math Concepts by Grade Level

Information on the books listed below is available at: <http://www.phschool.com/cmp2/>

**6<sup>th</sup> Grade Math covers the following books and additional concepts:**  
(Click on the heading to link to the CMP2 website)

**6<sup>th</sup> Grade CMP2 Books:**

Bits & Pieces II  
Bits & Pieces III  
Covering & Surrounding  
How Likely Is It?

**7<sup>th</sup> Grade CMP2 Books:**

Filling & Wrapping (no cones or spheres)  
Variables & Patterns

**Additional Concepts:**

Prime factorization  
Order of operations  
Commutative, associative and distributive properties  
Comparing and ordering integers  
Writing & interpreting ratios and rates

**6<sup>th</sup> Grade Advanced & 7<sup>th</sup> Grade Math covers the following books and additional concepts:**

**7<sup>th</sup> Grade CMP2 Books:**

Accentuate the Negative  
Stretching & Shrinking  
Comparing & Scaling  
Moving Straight Ahead  
Filling & Wrapping  
What Do You Expect?  
Data Distributions

**Additional Concepts:**

Solving multiple step one-variable equations  
Constructing & interpreting circle graphs, histograms and stem-and leaf plots  
Evaluating effectiveness & bias in surveys & statistics  
Converting within & between measurement systems

**7<sup>th</sup> Grade Advanced & 8<sup>th</sup> Grade Math covers the following books and additional concepts:**

**8<sup>th</sup> Grade CMP2 Books:**

Thinking With Mathematical Models

Looking For Pythagoras

Growing, Growing, Growing

Samples & Populations

Kaleidoscopes, Hubcaps & Mirrors

Shapes of Algebra

Frogs, Fleas & Painted Cubes

Say It With Symbols

**Additional Concepts:**

Expected value, combinations & permutations

Properties of parallel lines & transversals

Complementary & supplementary angles

Vertical & adjacent angles

Polygon angle sums

Rules of exponents