# Sayreville Public Schools

**Department of Mathematics and STEM Programs**

Sayreville Board of Education Sayreville, New Jersey

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# Grade 6 Advanced Honors Program Summer Assignment

Congratulations on being accepted to Sayreville Public School’s Advanced Honors Program in Mathematics. Your summer assignment is on IXL.com and is listed below.

# 6th Grade IXL Topics

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| **Number** | **IXL** | **Topic** |
| 1 | D2 | Evaluate exponents |
| 2 | E8 | Greatest common factor |
| 3 | E10 | Least common multiple |
| 4 | I10,  I12 | Convert decimals to fractions.  Convert between decimals and mixed numbers |
| 5 | J7 | Add and subtract mixed numbers: word problems |
| 6 | K13 | Multiply mixed numbers |
| 7 | L7 | Divide fractions and mixed numbers |
| 8 | M7 | Compare integers |
| 9 | O2 | Add, subtract, multiply and divide two decimals: word problems |
| 10 | O10 | Add, subtract, multiply and divide two fractions: word problems |
| 11 | P5 | Put rational numbers in order |
| 12 | Q2 | Multistep Word Problems |
| 13 | S4 | Convert between percents, fractions, and decimals |
| 14 | S11 | Percent of numbers: word problems. |
| 15 | S13 | Find what percent one number is of another |
| 16 | R7 | Ratio Tables |
| 17 | R13 | Compare Ratios: Word Problems |
| 18 | T3 | Convert and compare customary units |
| 19 | V1 | Which is the better coupon? |
| 20 | X6 | Distance between two points |
| 21 | Y15 | Factoring using the distributive property |
| 22 | Z10 | Solve one-step equations involving decimals, fractions, and mixed numbers |
| 23 | BB12 | Complete a table for a two-variable relationship |
| 24 | BB14 | Interpret a graph: word problems |
| 25 | FF1 | Perimeter |
| 26 | FF11 | Area of compound figures |
| 27 | EE3 | Nets of 3-dimensional figures |
| 28 | FF18 | Volumes of cubes and rectangular prisms |
| 29 | GG3 | Interpret line plots |
| 30 | HH3 | Interpret charts to find the mean, median, mode, and range |

Students can choose **25 – 30 topics** from the given list of 30 topics and then complete each topic with **a minimum Smart Score of 80** no later than July 31, 2022. Failure to complete these tasks may result **in being removed f**rom the Advanced Honors Mathematics Class in Grade 6.

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