| | | | Submit comments on the draft NYS | Grade 8 Mathematics Learning Standards | | _ | | |
|---------|--|------------------|---|---|--|---|--|--|
| | NYS Grade 6 to Grade 8 Mathematics Learning Standards | | | | | | | |
| | | Grade 8 | | | | | | |
| | | | I ne Nu | mber System | | | | |
| | E | Standard Code | Current Standard | Revised Standard Recommendation for 2018-19 | Additional Information/Notes | | | |
| sters | at are not rational and approximate the al numbers. | 8.NSA.1 | Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number. | Understand informally that every number has a decimal expansion; the rational numberseathose with decimal expansions that terminate in 0s or eventually repeat. Know that other numbers are called irrational. | The suggested language for this standard comes from the June 2010Grade 68 Domain Progressions for Mathematics This replacement prvides a understanding of the difference between rational and irrational numbers. | | | |
| Cluster | A. Know that there are numbers th by ration | 8.NS.A.2 | 2. Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value expressions (e.g., ²). For example, by <i>truncating the decimal expansion of 2 (square root of 2), show that 2 is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.</i> | Use rational approximations of irrational numbers to compare the size of irrational numbers, locate then approximately on a number line diagram, and estimate the value of expressions, which indudes, ². For example, by truncating the decimal expansion 2 (square root of 2), show that 2 is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations | Clarification | | | |

| Grade 8 Expressions and Equations (Inequalities) Standard Code Current Standard Revised Standard Recommendation for 2018-19 Additional Information/N | | | NYS Grade 6 to Grade 8 Mathematics Learning Standards | | | | | |
|--|----------|--------------------------|---|------------------|------------------|----------|--|--|
| Expressions and Equations (Inequalities) Standard Code Current Standard Revised Standard Recommendation for 2018-19 Additional Information/N | Grade 8 | | | | | | | |
| Standard Code Current Standard Revised Standard Recommendation for 2018-19 Additional Information/A | | 1 | Expressions and Equations (Inequalities) | | | | | |
| Cross | on/Notes | Additional Information/N | Revised Standard Recommendation for 2018-19 | Current Standard | Standard Code | | | |
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| | | | Submit comments on the draft NYS | Grade 8 Mathematics Learning Standards | |
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| | NYS Grade 6 to Grade 8 M | | | Mathematics Learning Standards | |
| | | | | Grade 8 | |
| | | | Expressions and | Equations (Inequalities) | 1 |
| | | Standard Code | Current Standard | Revised Standard Recommendation for 2018-19 | Additional Information/Notes |
| | nal A. Work with radicals and integer exponents. | 8.EE.A.4 | Perform operations with numbers expressed scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that hasden generated by technology. | 4. Perform operations with numbers expressed in scientific notation, including problems where both standard decimal form and scientific notation are used. Use scientific notation and choose units of appropriate size for measumeents of very large or very small quantities. Interpret scientific notation that has been generated by technology. | Clarification |
| Clusters | nections between proportio es and linear equations. | 8.EE.B.5 | 5. Graph proportionafelationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. F example, compare a distanction graph to a distancetime equation to determine which of | or | |
| | B. Understand the con relationships, lin | | | | |

| Submit comments on the draft NYS Grade 8 Mathematics Learning Standards NYS Grade 6 to Grade 8 Mathematics Learning Standards | | | | |
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Submit comments on the draft NYS Grade 8 Mathematics Learning Standards

| | | | Submit comments on the draft NYS | Grade 8 Mathematics Learning Standards | |
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| | | | NYS Grade 6 to Grade 8 M | Nathematics Learning Standards | |
| | | | (| Grade 8 | |
| | ~ | Standard Code | Current Standard | Revised Standard Recommendation for 2018-19 | Additional Information/Notes |
| Clusters | nd similarit encies, or | 8.G.A.1 | Verify experimentally the properties of rotations, reflections, and translations: | 1. No Change | |
| | igruence a dels, tra pa r / software. | 8.G.A.1a | 1a. Lines are taken to lines, and line segments to line segments of the same length. | 1a. No Change | |
| | stand con sical moo geometry | 8.G.A.1b | 1b. Angles are taken to angles of the same measu | 1b. No Change | |
| | A. Under using phy | 8.G.A.1c | 1c. Parallel lines are taken to parallel lines. | 1c. No Change | |

Submit comments on the draft NYS Grade 8 Mathematics Learning Standards

| Understand NYS Grade 6 to Grade 8 Mathematics Learning Standards Grade 8 Geometry Standard Current Standard Revised Standard Recommendation for 2018-19 Additional Information/ Standard Recommendation for 2018-19 Additional Information/ | .2(P)39()1 | | Submit comments on the dra | aft NYS Grade 8 Mathematics Learning Standards | |
|---|---|------------------|----------------------------|--|------------------------------|
| Ctrul 2017 Standard Code Current Standard Code Current Standard Current | .6(p | | NYS Grade 6 to G | rade 8 Mathematics Learning Standards | |
| Standard Code Current Standard Current Standard Revised Standard Recommendation for 2018-19 Additional Information/ | 6(hat)2 | | | Grade 8 Geometry | |
| and and apply the Pythagore Theorem.x2(P3(0.4(t)2t) | 21)75. | Standard Code | Current Standard | Revised Standard Recommendation for 2018-19 | Additional Information/Notes |
| B. Underst | Clusters B. Understand and apply the Pythagore Theorem.x2(P3(0.4(t)2t); | | | | |

| | | | NYS Grade 6 to Grade 8 Mather | natics Learning Standards | | | |
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| | Grade 8 Statistics and Probability | | | | | | |
| | | Standard Code | Current Standard | Revised Standard Recommendation for 2018-19 | Additional Information/Notes | | |
| | | 8.SP.A.1 | 1. Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association. | 1. | | | |
| Clusters | A. Investigate patterns of association in bivariate data. | | | | | | |