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|---------------------------|---------------------------------|
| <b>Course Code</b>        | 1205040                         |
| <b>Course Category</b>    | 6-12                            |
| <b>Subject Area</b>       | Mathematics                     |
| <b>Course Type</b>        | Core                            |
| <b>Course Title</b>       | M/J Mathematics 2 - 7th Regular |
| <b>Course Level</b>       | 2                               |
| <b>Course Length</b>      | Full Year                       |
| <b>Credit Description</b> | NA                              |
| <b>Abbreviated Title</b>  | M/J Mathematics 2 - 7th Regular |

**RELATED BENCHMARKS (24) :**

| Scheme     | Descriptor  |
|------------|---|
| LA.7.1.6.5 | The student will relate new vocabulary to familiar words;   |
| LA.7.3.2.2 | The student will draft writing by organizing information into a logical sequence and combining or deleting sentences to enhance clarity; and  |
| MA.7.A.1.1 | Distinguish between situations that are proportional or not proportional and use proportions to solve problems.   |
| MA.7.A.1.2 | Solve percent problems, including problems involving discounts, simple interest, taxes, tips and percents of increase or decrease.  |
| MA.7.A.1.3 | Solve problems involving similar figures.   |
| MA.7.A.1.4 | Graph proportional relationships and identify the unit rate as the slope of the related linear function.  |
| MA.7.A.1.5 | Distinguish direct variation from other relationships, including inverse variation.   |
| MA.7.A.1.6 | Apply proportionality to measurement in multiple contexts, including scale drawings and constant speed.   |
| MA.7.A.3.1 | Use and justify the rules for adding, subtracting, multiplying, dividing, and finding the absolute value of integers.   |
| MA.7.A.3.2 | Add, subtract, multiply, and divide integers, fractions, and terminating decimals, and perform exponential operations with rational bases and whole number exponents including solving problems in everyday contexts. |
| MA.7.A.3.3 | Formulate and use different strategies to solve one-step and two-step linear equations, including equations with rational coefficients.   |
| MA.7.A.3.4 | Use the properties of equality to represent an equation in a different way and to show that two equations are equivalent in a given context.  |
| MA.7.A.5.1 | Express rational numbers as terminating or repeating decimals.  |

- MA.7.A.5.2 Solve non-routine problems by working backwards.
- MA.7.G.2.1 Justify and apply formulas for surface area and volume of pyramids, prisms, cylinders, and cones.
- MA.7.G.2.2 Use formulas to find surface areas and volume of three-dimensional composite shapes.
- MA.7.G.4.1 Determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and apply these relationships to solve problems.
- MA.7.G.4.2 Predict the results of transformations and draw transformed figures, with and without the coordinate plane.
- MA.7.G.4.3 Identify and plot ordered pairs in all four quadrants of the coordinate plane.
- MA.7.G.4.4 Compare, contrast, and convert units of measure between different measurement systems (US customary or metric (SI)), dimensions, and derived units to solve problems.
- MA.7.P.7.1 Determine the outcome of an experiment and predict which events are likely or unlikely, and if the experiment is fair or unfair.
- MA.7.P.7.2 Determine, compare, and make predictions based on experimental or theoretical probability of independent or dependent events,
- MA.7.S.6.1 Evaluate the reasonableness of a sample to determine the appropriateness of generalizations made about the population.
- MA.7.S.6.2 Construct and analyze histograms, stem-and-leaf plots, and circle graphs.