**ROMAN CATHOLIC BISHOP OF NOVALICHES**

**EDUCATIONAL SYSTEM (RCBN-ES, Inc.)**

Quirino Hi-way cor. P. dela Cruz St., Novaliches, Quezon City

Telephone 417-3105

**3rd Quarter MATHEMATICS Pointers to Review**

S.Y. 2017 – 2018

**Grade 1**

**Grouping**

* Count groups of equal quantity using concrete objects up to 50 and writes an equivalent expression. e.g. 2 groups of 5
* Visualizes, represents, and separates objects into groups of equal quantity using concrete objects up to 50. e.g. 10 grouped by 5s

**Fractions**

* Visualizes and identifies ½ and ¼ of a whole object.
* Visualizes, represents, and divides a whole into halves and fourths.
* Visualizes, and divides the elements of sets into two groups of equal quantities to show halves.
* Visualizes, represents, and divides the elements of sets into four groups of equal quantities to show fourths
* Visualizes and draws the whole region or set given its ½ and/or ¼.

**Shapes and patterns**

* Identifies, names, and describes the four basic shapes (square, rectangle, triangle and circle) in 2-dimensional (flat/plane) and 3-dimensional (solid) objects
* Draw the four basic shapes.
* Compares and classifies 2-dimensional (flat/plane) and 3-dimensional (solid) figures according to common attributes.
* Constructs three dimensional objects (solid) using manipulative materials.
* Determines the missing term/s in a given continuous pattern using one attribute (letters/ numbers/events).
* Determines the missing term/s in a given repeating pattern using one attribute(letters, numbers, colors, figures, sizes, etc.).
* Constructs equivalent number expression using addition and subtraction. e.g. 6 + 5 = 12 - 1
* Identifies and creates patterns to compose and decompose using addition. e.g. 7 = 0 + 7, 1 + 6, 2 + 5, 3 + 4, 4 + 3, 5 + 2, 6 + 1, 7 + 0
* Visualizes and finds the missing number in an addition or subtraction sentence using a variety of ways e.g.

n + 2 = 5

5 – n = 3

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**Grade 2**

**Division of Whole Numbers**

* visualizes and represents division
* illustrates that multiplication and division are inverse operations
* visualizes and represents division as:

a. Repeated Subtraction

b. Sharing

c. Dividing Using Partitioning

d. Dividing Using Number Line

* visualizes division of numbers up to 100 by 2,3,4,5, and 10
* solves routine and non-routine problems involving division

**Fraction**

* visualizes, represents and identifies unit fractions
* compares unit fractions using relation symbols
* arranges unit fractions in increasing or decreasing order
* identifies other fractions less than one with denominators 10 and below
* visualizes similar fractions
* compares similar fractions using relation symbols
* arranges similar fractions in increasing or decreasing order
* Visualizes and represents proper fractions

**Geometry, Algebra and Patterns**

* Visualizes, identifies, classifies and describes half-circles and quarter circles
* Constructs squares, rectangles, triangle, circles, half-circles and quarter circles
* Identifies shapes/figures that show symmetry in a line
* Recognizes shapes that can tessellate
* Identify and explain the differences between straight lines and curved lines
* Visualizes common space figures
* determines the missing term/s in a given continuous pattern
* visualizes and finds the missing value in a number

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**Grade 3**

**Numbers and number sense, Geometry**

\* Identifies odd and even numbers.

\* Visualizes and represents fractions that are equal to one and greater than one.

\* Reads and writes fractions that are equal to one and greater than one in symbols and in words.

\* Represents fractions using regions, sets, and the number line.

\* Visualizes and represents dissimilar fractions.

\* Visualizes, represents, and compares dissimilar fractions.

\* Compares unit fractions using relation symbols.

\* Visualizes, represents, and arranges dissimilar fractions in increasing or decreasing order.

\* Visualizes and generates equivalent fractions.

\* Recognizes and draws a point, line, line segment and ray.

\* Recognizes and Draws perpendicular lines, parallel lines and intersecting lines

\* Visualizes, identifies and draws congruent line segments.

\* Completes a symmetric figure with respect to a given line of symmetry.

\* Tessellates the plane using triangles, squares and other shapes that can tessellate.

\* Determines the missing term/s in a given combination of continuous and repeating pattern.

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**Grade 4**

**GEOMETRY, PATTERNS & ALGEBRA & MEASUREMENT**

 Describes and illustrates different geometric figures

 Describes and illustrates different kinds of lines

 Describes and illustrates different angles and angle pairs

 Identifies, describes and illustrates different polygons

 Identifies and describes triangles according to sides and angles

 Identifies and describes different kinds of quadrilaterals

 Identify symmetrical figures

 Identifies and describes common solids particularly cube and rectangular prism

 Identify patterns from a given set of objects

 Determines the missing object in a given set

 Identify patterns from a given set of numbers

 Determines the missing term in a sequence

 Determines the missing term in an equation

 Convert one unit of time to another

 Identify the elapsed time

 Solve word problems involving time

 Measures the perimeter of any given figure

 Solve word problems involving perimeter

 Measures the perimeter of any given figure

 Solve word problems involving perimeter

* Differentiate perimeter from area
* Convert square cm to square m and vice versa

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**Grade 5**

**Percent, Geometry, Patterns and Algebra, Measurement**

* visualizes percent and its relationship to fractions, ratios and decimal numbers using models
* defines percentage, rate or percent, and base
* identifies the base, percentage, and rate in the problem
* finds the percentage in a given problem
* solves routine and non-routine problems involving percentage using appropriate strategies and tools
* creates problems involving percentage with reasonable answers
* solves routine and non-routine problems involving percentage using appropriate strategies and tools
* creates problems involving percentage with reasonable answers
* visualizes, names, and describes polygons with 5 or more sides
* describes and compares properties of polygons (regular and irregular polygons)
* visualizes congruent polygons
* draws polygons with 5 or more sides
* visualizes and describes a circle
* identifies the terms related to a circle
* draws circles with different radii using a compass
* visualizes and describes solid figures
* make models of different solid figures: cube, prism, pyramid, cylinder, cone, and sphere using plane figures
* formulates the rule in finding the next term in a sequence
* uses different strategies (looking for a pattern, working backwards, etc.) to solve for the unknown in simple equations involving one or more operations on whole numbers and fractions
* formulates the rule in finding the next term in a sequence
* uses different strategies (looking for a pattern, working backwards, etc.) to solve for the unknown in simple equations involving one or more operations on whole numbers and fractions
* measures time using a 12-hour and a 24-hour clock (P)
* calculates time in the different world time zones in relation to the Philippines
* solves problems involving time
* visualizes circumference of a circle
* measures circumference of a circle using appropriate tools
* derives a formula in finding the circumference of a circle
* finds the circumference of a circle
* solves routine and non-routine problems involving circumference of a circle

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**Grade 6**

**Solid Figures, Patterns and Algebra and Measurement**

* Visualizes and describes the different solid figures: cube, prism, pyramid, cylinder, cone, and sphere.
* Differentiates solid figures from plane figures.
* Illustrates the different solid figures using various concrete and pictorial models.
* Identifies the faces of a solid figure.
* Identifies the nets of the following space figures: cube, prism, pyramid, cylinder, cone, and sphere using plane figures.
* formulates the rule in finding the nth term using different strategies (looking for a pattern, guessing and checking, working backwards)
* differentiates expression from equation
* gives the translation of real-life verbal expressions and equations into letters or symbols and vice versa
* defines a variable in an algebraic expression and equation
* represents quantities in real-life situations using algebraic expressions and equations.
* solves routine and non-routine problems involving different types of numerical expressions and equations such as 7+ 9 =\_\_\_ + 6.
* creates routine and non-routine problems involving numerical expressions and equations.
* Calculates speed, distance, and time.
* solves problems involving average rate and speed
* finds the area of composite figures formed by any two or more of the following: triangle, square, rectangle, circle, and semi-circle.
* solves routine and non-routine problems involving area of composite figures formed by any two or more of the following: triangle, square, rectangle, circle, and semi-circle
* visualizes and describes surface area and names the unit of measure used for measuring the surface area of solid/space figures
* derives a formula for finding the surface area of cubes, prisms, pyramids, cylinders, cones, and spheres.
* finds the surface area of cubes, prisms, pyramids, cylinders, cones, and spheres.
* solves word problems involving measurement of surface area.