



**ROMAN CATHOLIC BISHOP OF NOVALICHES
EDUCATIONAL SYSTEM (RCBN-ES, Inc.)**
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**1ST PERIODIC EXAMINATION
POINTERS FOR REVIEW
School Year 2019 – 2020**

SCIENCE G7

A. Introduction to Science and Technology

1. Science and Technology
2. Branches of Science
3. Laboratory Tools
4. Laboratory Techniques
5. Safety Measures

B. Components of Scientific Investigation

1. Statement of the Research Problem
2. Formulation of Hypothesis
3. Testing Hypothesis and Gathering Data
4. Analyzing and Presenting Data
5. Creating Conclusion

C. Classification of Matter

1. **Substances and Mixtures**
 - **Kinds of Mixtures**
 - **Separation Techniques**
2. **Solutions**
 - a. Components of a Solution
 - b. Types of Solutions
 - c. Factors Affecting Solubility
 - d. Concentrations of Solutions
3. **Elements and Compounds**
4. **Acids and Bases**
5. **Metals and Non-metals**

SCIENCE G8

A. Force and Motion

1. Balanced and Unbalanced Forces
2. Newton's Laws of Motion
3. Circular Motion

B. Work and Energy

1. Work
2. Power
3. Potential and Kinetic Energy
4. Conservation of Mechanical Energy

C. Sound, Light, and Heat

1. Propagation of Sound
2. Speed of Sound
3. Properties and Characteristics of Light
4. Visible Light Spectrum
5. Heat and Temperature
6. Temperature Scales

D. Electricity

1. Current, Voltage, and Resistance
2. Series and Parallel Circuits
3. Electric Power and Electrical Energy
4. Dangers and Safety Devices

SCIENCE G9

I. Respiratory and Circulatory Systems Working with the other Organ Systems

- A. The Human Blood
- B. The Blood Vessels
- C. The Heart and Flow of Blood
- D. The Human Respiratory System
- E. How the respiratory and circulatory system work together
- F. Maintaining a Healthy Circulatory and Respiratory System

II. Heredity: Inheritance and Variation

- A. Location of Genes on Chromosomes
- B. Non-Mendelian Patterns of Inheritance
 - Incomplete dominance
 - Multiple alleles
 - Sex- Linked Genes

III. Biodiversity and Evolution

- A. Species Extinction and Its Causes
- B. Conservation of Species

IV. Ecosystem

- A. The Light-Dependent Reaction
- B. The Light Independent Reaction
- C. Glycolysis
- D. Krebs Cycle or Citric Acid Cycle
- E. Electron Transport Chain
- F. Photosynthesis and Respiration
- G. Different Types of Fermentation

SCIENCE G 10

1. Plate Tectonics
 - a. Tectonic Plates around the world and their location
 - b. Basic Concepts
2. EARTHQUAKE
 - Locating Earthquake epicentres
3. PLATE BOUNDARIES
 - a. Types of plate boundaries
 - b. PROCESSES OF LANDFORMS ALONG PLATE BOUNDARIES
4. INTERNAL STRUCTURE OF EARTH
5. MECHANISM/CAUSES OF PLATE TECTONICS
6. EVIDENCES OF PLATE MOVEMENT

NOTE: please bring the following:

- Ruler
- Pencil
- drawing compass