



Republic of the Philippines
Department of Education
SOCCSKSARGEN REGION

April 8, 2022

REGION MEMORANDUM
CLMD No. 111, s. 2022

TEST ITEM WRITERS FOR ENGLISH, MATHEMATICS, AND SCIENCE

To: Schools Division Superintendents

1. As an offshoot of the Regional Seminar on 21st Century Skills and Assessment last March 9-11, 2022, participants of the activity were requested to write test items that will assess the learners' Higher Order Thinking Skills in the specified competencies.
2. Enclosed is the list of writers and their assigned competencies. The writers shall send the test items to the following:

Subject Area	Email Address
English	shiennalyn.antenor@deped.gov.ph
Mathematics	jayar.lipura@deped.gov.ph
Science	peter.angug@deped.gov.ph

3. For inquiries, contact **Jay-ar S. Lipura**, EPS through jayar.lipura@deped.gov.ph.
4. For the information and guidance of all concerned.


CARLITO D. ROCAFORT
Director IV

Enclosure: As stated
Reference: Region Memorandum CLMD No. 49, s. 2022
Allotment: None
To be indicated in the PERPETUAL INDEX under the subject
ASSESSMENT

JRSL/ CLMD/ RM /TEST ITEM WRITERS FOR ENGLISH, MATHEMATICS, AND SCIENCE/113/April 8, 2022

Enclosure to Region Memorandum CLMD No. 111, s 2022



Regional Center, Brgy. Carpenter Hill, City of Koronadal
Telefax No.: (083) 2288825/ (083) 2281893
Website: depedroxii.org Email: region12@deped.gov.ph





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MATHEMATICS TEST ITEM WRITERS				
PISA Content Knowledge	Learning Competency	No. of Items	Writer	Division
Equations and inequalities	Grade 9 a. illustrates quadratic inequalities (M9AL-If-1) Grade 10 b. illustrates polynomial equations (M10AL-Ii-1)	1	Karen Joy M. Raniola	Cotabato
Functions	Grade 9 a. models real-life situations using quadratic functions (M9AL Ig-2) b. represents a quadratic function using: (a) table of values; (b)graph; and (c) equation (M9AL Ig-3)	1	Karen Joy M. Raniola	Cotabato
Growth phenomena	Grade 9 a. analyzes the effects of changing the values of a, h, and k in the equation $y = a(x - h)^2 + k$ of a quadratic function on its graph. (M9AL-Ii-2)	1	Janette T. Dela Cruz	Kidapawan City
Entry point for Change and Relationship, growth phenomena, scientific context	Grade 9 a. solves problems involving quadratic functions. (M9AL-Ii-j-2)	1	Janette T. Dela Cruz	Kidapawan City
Percents, ratios, and proportions	Grade 9 d. solves problems involving variation. (M9AL-IIb-c-1)	1	Berne A. Madriaga	Sultan Kudarat
Numbers and units	Grade 9 e. simplifies radical expressions using the laws of radicals. (M9AL-IIg-1)	1	Berne A. Madriaga	Sultan Kudarat
Algebraic expressions	Grade 9 a. illustrates expressions with rational exponents. (M9AL-IId-2)	1	David Jess F. Rivera	Tacurong City



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Arithmetic operations	Grade 9 a. determines arithmetic means and nth term of an arithmetic sequence (M10AL-Ib-c 1) b. finds the sum of the terms of a given arithmetic sequence. (M10AL-Ic-2)	1	David Jess F. Rivera	Tacurong City
Coordinate systems	Grade 9 a. identifies quadrilaterals that are parallelograms. (M9GE-IIIa-1)	1	Anna Marie I. Soberano	South Cotabato
Measurement	Grade 9 a. uses properties to find measures of angles, sides, and other quantities involving parallelograms. (M9GE-IIIb-1)	1	Anna Marie I. Soberano	South Cotabato
Geometric approximations	Grade 9 a. solves problems involving parallelograms, trapezoids, and kites. (M9GE-IIIe-1)	1	Regilyn M. Magana	Koronadal City
Relationships within and among geometrical objects in two or three dimensions	Grade 9 b. solves problems that involve triangle similarity and right triangles. (M9GE-IIIj-1)	1	Regilyn M. Magana	Koronadal City
Counting Principles	Grade 10 a. solves problems involving permutations and combinations. (M10SP-III d-e-1)	1	Evelyn A. cagape	Sarangani
Chance and Probability	Grade 10 a. solves problems involving probability. (M10SP-III i-j-1) b. measures of position: quartiles, deciles, and percentiles. (M10SP-IVa-1)	1	Evelyn A. cagape	Sarangani
Data collection,	Grade 10 a. interprets measures of position. (M10SP-IVc-1)	1	Jumar C. Montero	General Santos City



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representation and interpretation	b. uses appropriate measures of position and other statistical methods in analyzing and interpreting research data. (M10SP-IVh-j-1)			
Data variability and its description	Grade 10 a. solves problems involving measures of position. (M10SP-IVd-e-1)	1	Jumar C. Montero	General Santos City

ENGLISH TEST ITEM WRITERS

PISA Topics	DepEd COMPETENCY	No. of Items	Writer	Division
Scan and Locate	Grade 7 Use the appropriate reading style (scanning, skimming, speed reading, intensive reading, etc.) for one's purpose	1	Antonette Z Rosil	Cotabato Province
	Grade 9 Extract important from argumentative/persuasive texts	1	Ritchie Barte	General Santos City
	Grade 8 Take note of sequence signals or connections to determine patterns of idea development	1	CRISANTA B. BOOC	Kidapawan City
Search and Select relevant text	Grade 8 Get information from various print media like brochures, pamphlets, periodicals, and audio-video recordings	1	Hernan Ysrael B. Pelino	Koronadal City



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	Grade 7 Gather current information from newspapers and other print and non-print media	1	Carl Jun G. Dela Cruz	South Cotabato
	Grade 8 Get information from various print media like brochures, pamphlets, periodicals, and audio-video recordings	1	Junalyn Loria Boron	Sultan Kudarat
Literal Comprehension	Grade 8 Distinguish between and among verbal, situational, and dramatic types of irony and give examples of each	1	Eugene Carl L. Penera	Tacurong City
	Grade 7 Read intensively to find answers to specific questions	1	Hodenna A. Labesores	Sarangani
	Distinguish between general and specific statements c. Sequence/reorganize ideas or information	1	Antonette Z. Rosil	Cotabato Province
Inference Comprehension	Grade 7 Give the meaning of given signs and symbols (road signs, prohibited signs, etc.)	1	Ritche Barte	General Santos City
	Grade 9 Interpret information found in non-linear texts such as diagrams, maps, charts, etc. b. Organize information in various ways (outlining, graphics, representations, etc.)	1	CRISANTA B. BOOC	Kidapawan City
	Grade 9 Summarize the contents of the material viewed.	1	Hernan Ysrael B. Pelino	Koronadal City
	Grade 8 Transcode	1	Carl Jun G. Dela Cruz	South Cotabato



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	information from a graphic organizer to a topic sentence outline			
Assess quality and credibility	Grade 7 Identify the persons speaking and the stand of the speakers based on explicit statements made	1	Junalyn Loria Boron	Sultan Kudarat
	Grade 8 Evaluate the details that support assertions in a text	1	Eugene Carl L. Penera	Tacurong City
	Grade 9 Judge the relevance and worth of ideas, soundness of the author's reasoning, and effectiveness of the presentation	1	Hodenna A. Labesores	Sarangani

SCIENCE TEST ITEMS WRITERS

PISA Content Knowledge	PISA Sub-domain	Learning Competency	No. of Items	Writer	Division
Structure of Matter	Particle Model	Grade 9 1. explain how the Quantum Mechanical Model of the atom describes the energies and positions of the electrons (S9MT-IIa22) – HOTS Model	1	Ailyn Grace G. Diez	Malapatan NHS, Sarangani
	Bonds	Grade 9 2 explains the formation of ionic and covalent bonds (S9MTIIa13) – SOLO Model 3. explain how the structure of the carbon atom affects the type of bonds it forms (S9MT-IIg17) – HOTS Model	1 1	Esagani M. Balbon	Binoongan HS, Cotabato
Chemical Changes	Chemical Reactions	Grade 10 4. apply the principles of conservation of mass to chemical reactions (S10MTIVe-g-23) – SOLO MODEL	1	Arlyn Grace G. Diez	Malapatan NHS, Sarangani



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	Energy transfer	Grade 9 5. explain how the Quantum Mechanical Model of the atom describes the energies and positions of the electrons (S9MT-IIa22) – HOTS Model	1	Jairus Jade C.Casabuen a	Fatima NHS, Gen. Santos City
Motion, Forces and Action at a Distance	Velocity	Grade 7 6.. create and interpret visual interpretation of the motion of objects such as tape charts and motion graphs. (S7FE-IIIb3) – SOLO Model	1	Jairus Jade C.Casabuen a	Fatima NHS, Gen. Santos City
	Forces and Friction	Grade 8 7.investigate the relationship between the amount of force applied and the mass of the object to the amount of change in the object’s motion. (S8FE-Ia-15) – HOTS Model 8.infer that circular motion requires the application of constant force directed toward the center of the circle (S8FE-4b-19) SOLO MODEL	1 1	Gloria Tabacug	Pres. Quirino NHS, Sultan Kudarat
	Gravitational Force (Projectile Motion)	Grade 9 9. Investigate the relationship between the angle of release and the height and the range of the projectile. (S9FE-IVa35) HOTS Model	1	Charmie Jane C. Aseral	Surallah NHS, South Cotabato
	Magnetic Force	Grade 10 10.explain the operation of a simple electric motor and generator (S10FE-IIj54) – SOLO Model	1	Charmie Jane C. Aseral	Surallah NHS, South Cotabato
Energy transformation	Chemical Reaction	Grade 10 11. explain how the factors affecting rates of chemical reactions are applied in food preservation and materials production, control of the pollution and corrosion. (S10MTIVh-j-24) – HOTS Model	1	Joan J. Ferrer	Koronadal National Comprehensive HS, Koronadal City
	Light	Grade 10 12.predict the qualitative characteristics (orientation, type, and	1	Joan J. Ferrer	Koronadal National Comprehensive



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		magnification) of images formed by plane and curved mirrors and lenses (S10FE-IIg50) – SOLO Model			nsive HS, Koronadal City
Cells (i.e. structures and function, DNA, differences between plant and animal cells)	DNA	Grade 10 13. explain how protein is made using information from DNA (S10LTIId-37) - HOTS Model 14 explain how mutations may cause changes in the structure and function of a protein (S10LTIIE-38) – SOLO Model	1	Mariegold Ann J. Japitana	Tacurong NHS, Tacurong City
	Genetic Variation	Grade 7 15. predict phenotypic expressions of traits following simple patterns of inheritance (S8LT-IVf-18) – HOTS Model	1		
		Grade 9 16. explain the different patterns of non-Mendelian inheritance (S9LT-Id-29) – SOLO Model	1		



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