Republic of the Philippines

**DEPARTMENT OF EDUCATION**

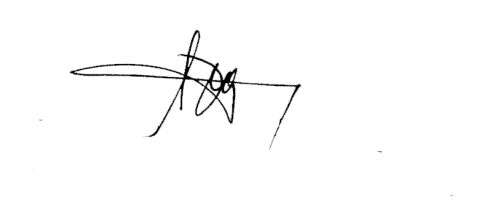
Cordillera Administrative Region

**SCHOOLS DIVISION OFFICE OF ABRA**

Bangued, Abra

**DIVISION MEMORANDUM**

**No. 120,s. 2016**

To : **Public Schools District Supervisors**

**Secondary School Heads**

From : **RONALD B. CASTILLO, CESO VI**

Schools Division Superintendent

Subject : **2016 DIVISION SCIENCE & MATH FESTIVAL**

Date : August 26, 2016

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The DepEd Schools Division Office of Abra in coordination with the Science and Mathematics District and Secondary School Coordinators will conduct the 2016 Division Science and Mathematics Festival with the theme “Juan Science, Juan Math, Juan Nation” on ***September 30 – October 1, 2016*** at ***Calaba Elementary School, Bangued, Abra.***
2. This activity is an annual academic competition that aims to promote Science and Technology consciousness among the youth and identify the most creative/ innovative researches who will represent the division in the Regional Science and Mathematics Festival.The different competitions to be conducted are the following:
   1. Science Investigatory Project (SIP)
   2. Mathematics Investigation (MI)
   3. Science Quiz
   4. Mathematics Quiz
   5. Sci-Dama
   6. Damath
   7. Strategic Intervention Material (SIM) inScience for Teachers
   8. Strategic Intervention Material (SIM) in Mathematics for Teachers
3. All events/competitions will be conducted on the first day of the festival –September 30, 2016, ***except for Sci-Dama and Damath*** which will be conducted on the second day of the festival – October 1, 2016. Participants, coaches, and members of the Technical Working Group for Sci-Dama and Damath shall attend only the second day of the festival.
4. Teachers and non-teaching personnel who are present during the second day of the festival, October 1, 2016 – Saturday, will be granted one (1) day service credit and 1.5 Compensatory Overtime Credit (COC) respectively.
5. Guidelines and mechanics of the different competitions are found in Enclosure No. 1 while members of Technical Working Group (TWG) and Judges are found in Enclosure No. 2. Enclosure No. 3 is a copy of the Registration Form.
6. Participants will be charged a registration fee of ***Eighty Pesos (P 80.00)***each including teacher-coach to cover administrative cost and incidental expenses. Meals and snacks for the participants shall be taken cared of by the participating schools while members of the TWG, judges, and Deped Officials will have snacks and lunch for the two-day festival. ***Pre-registration starts on September 1, 2016***. All expenses relative to the conduct of this activity shall be charged against local funds and other sources subject to the usual accounting and auditing rules and regulations.
7. Immediate and wide dissemination of this memorandum is advised.

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*(Division Memorandum No. \_\_\_\_\_, s. 2016 Enclosure No. 1)*

**Guidelines and Mechanics for the Different Competitions**

* + - 1. **Science Investigatory Project (SIP)**

1. The science research competition is open to **ALL** secondary schools regardless of school type. Below is the classifications and categories for the ***secondary level***.

|  |  |  |  |
| --- | --- | --- | --- |
| Physical Science | | Life Science | |
| Individual | Team (3 members) | Individual | Team (3 members) |

* + 1. The science research competition for the ***elementary level*** will be in two categories; the individual and team categories. Projects will no longer classified as physical science or life science.
    2. The **TOP FIVE (5)** projects per classification and category in the Division Level will participate in the Regional Level competition.
    3. Science research projects must conform to international rules published by the ***Intel International Rules for Pre-college Science Research: Guidelines for Science and Engineering Fairs.*** Each project is expected to have a Research Adviser. Scientific fraud and misconduct is not condoned at any level of research or competition. Plagiarism, use or presentation of other research’s work as one’s own and fabrication of data will not be tolerated. Fraudulent projects are disqualified for the competition.
    4. The exhibit:

35 cm 70 cm 35 cm

Abstract

Conclusion

Methodology – pictures/ graphs may be used if applicable

Result & Discussion

Recommendation

Background

180 cm

Bibliography

Objectives

Significance

Photo Credits (if applicable)

* + 1. The project display using ***illustration board and set of paper(NOT tarpaulin)*** summarizes the research project and must focus on the proponent’s work for this year’s study, and if applicable, with only minimal reference to previous research. The safety regulations that must be adhered to should be consistent with the guidelines found on page 23 of the ISEF guidelines (<http://www.societyforscience.org/isef/rulesandguidelines>).
    2. The following items should be seen in the project display: Abstract, Background, Objectives, Significance, Methodology, Results and Discussion, Conclusion, Recommendations, Bibliography and if applicable, Photo Credits (including illustrations and graphics). Note that a proponent should **NOT** include his/her face in the project’s procedure/illustration in the display.
    3. Requirements for presentation by the Project Proponent/s to the BOJs during the exhibit are the following:
* Copy of the required forms
* Copy of the research write-up
* Project data book or student journal complete with dates of entry, number of pages, and all other details (Refer also at ISEF Student Handbook website: <http://www.societyforscience.org/document.doc?id=12>)

1. **Mathematics Investigation (MI)**
2. The mathematics investigation competition is for the ***secondary level only*** and it will be in two categories; the individual category and team category comprising of three (3) members.
3. The project should meet also the ISEF Guidelines.
4. **Science and Mathematics Quiz**
5. The division Science and Mathematics Quiz shall be conducted in a Quiz Show Format wherein all contestants are seated facing the Quiz Master except for the Mathematics Written Quiz wherein the participants shall answer the given set of questions in written for a given period of time.
6. Participants to these events are the following:

|  |  |
| --- | --- |
| ***Events*** | ***Participants*** |
| *Science Quiz* | *First Place winners of Grade 3,4,5,and 6 in the (27) Municipal Districts and Grade 7,8,9, and 10 of all Secondary Schools including IS and Ext. Schools* |
| *Math Quiz* | *First Place winners of Grade 4,5,and 6 in the (27) Municipal Districts and Grade 7,8,9, and 10 of all Secondary Schools including IS and Ext. Schools* |
| *Math Written Quiz* | *First Place winners of any Grade Level in the (27) Municipal district and any Grade Level of all Secondary Schools including IS and Ext. Schools* |

1. There shall be EASY, AVERAGE, and DIFFICULT Rounds of five (5) questions per category. Questions are taken from the K to 12 Curriculum. Each correct answer for the easy round is given two (2) points, average round three (3) points, and difficult round five (5) points. In case of tie/s, three (3) clincher questions will be given. In case the tie is not yet broken, a DO or DIE questions will be given until the tie is broken.
2. The time limit for every category is as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***EVENT*** | ***Easy*** | ***Average*** | ***Difficult/ Clincher*** | ***Do or Die*** |
| *Science Quiz* | *15 seconds* | *30 seconds* | *60 seconds* | *No time limit* |
| *Math Quiz* | *30 seconds* | *60 seconds* | *90 seconds* | *No time limit* |
| *Math Quiz Written* | *1 hour and 30 minutes* | | | |

1. The quiz master will read the question twice. After the second reading, the quiz master will say “GO” and the time to start writing their answers will begin. The designated timer will say “STOP” after the given time limit and the contestants will raise their answers for checking and recording by the proctors and board of judges.
2. If the proctors cannot determine the validity of the answer, the board of judges will decide on the matter. The decision of the board of judges is FINAL.
3. Only the contestant can make a protest and all protest shall be referred to the board of judges before the quiz master reads the next question. No protest will be entertained after the quiz master has read the next question.Any violation of the aforementioned rules shall cause the disqualification of the contestant/s concerned.
4. For the Mathematics Written Quiz, participants will answer 20 items mathematical problems in one (1) hour and thirty (30) minutes. The quiz contains 5 – easy, 5 – average, and 10 – difficult questions. The participant with the highest score will be the winner.
5. **Sci-Dama andDamath**

|  |  |  |
| --- | --- | --- |
| ***Grade Level*** | ***Sci-Dama*** | ***Damath*** |
| Grade 3 or 4 | Water Patrol | Whole Number |
| Grade 5 or 6 | Power Patrol | Positive Fraction |
| Grade 7 | Electro | Integers |
| Grade 8 | Scientific Notation | Signed Fraction |
| Grade 9 | THI | Radical |
| Grade 10 | Thermodynamics | Polynomials |

1. One contestant and one coach per grade level.
2. There shall be ten (10) competing teams in the elementary level coming from the Mother Districts and eight (8) competing teams in the secondary level coming from the Secondary Clusters. Clusters of the secondary schools shall be as follows:

|  |  |
| --- | --- |
| ***Cluster 1*** | *Abra HSMain, AbraHS Calot&Sinalang Ext., Gaddani NHS, and Peñarubia IS* |
| ***Cluster 2*** | *MYBBMNHS, Western Abra NHS and Pulot NHS* |
| ***Cluster 3*** | *San Quintin NHS, Suyo NHS, San Isidro NHS, and Langiden NHS* |
| ***Cluster 4*** | *RosalioEduarte NHS, Northern Abra NHS,Quidaoen NHS, Caganayan NHS, Cayapa NHS and Tineg NHS* |
| ***Cluster 5*** | *Tagodtod NHS, Pangtod NHS, Abas NHS, Baay NHS Main&Lacub Ext., and Mataragan NAS* |
| ***Cluster 6*** | *Pilar Rural HS, Dalit NHS, and Bolbolo NHS* |
| ***Cluster 7*** | *Tiempo NHS, Luzong NHS, Lullono NHS, Dilong NHS and Supo NHS* |
| ***Cluster 8*** | *Manabo NHS, Cristina B. Gonzales MNHS, Boliney NHS, Capitan NHS, and Dugong NHS* |
| ***Others*** | *Private Schools* |

1. Only the official contestant may raise a protest or clarification and it should be made before the next move will be done. The protest should be directed to the arbiter/timer who is responsible for settling all clarifications which may arise in the course of the competition.The assigned chairman of the board is responsible for settling protest that may arise in the course of the competition.

**Rules of DAMATH/ SCI-DAMA**

1. Set the starting positions of the chips.
2. The two (2) players alternately will take turns in moving a piece, PASS is NOT ALLOWED.
3. Touch move shall be observed in the games. A player who touches a chip is required to move that chip unless it is illegal move.
4. After making a move, a player shall record his/ her move in the score sheet.
5. Only one score sheet will be used by the players in the game.
6. Each player is allowed one (1) minute to move, record, and score.
7. A warning is given by the arbiter to a player if no move is made in a minute which will consequently force the player to move a chip.
8. Continuous violation of rule #7 will be a ground for disqualification after three (3) warnings regardless of the score garnered.
9. All moves should be in the forward direction except when taking a chip or the chip is “DAMA”.
10. A chip is declared “DAMA” it reaches and stops in any of the following opponent’s square: (1,0), (3,0), (5,0), or (7,0). Similarly, if an ordinary opponent’s chip reaches any of the following squares: (0,7), (2,7), (4, 7), or (6, 7)
11. Once a chip is declared as a “DAMA”, it could slide diagonally forward or backward in any vacant square and if it takes a chip, the score is doubled, similarly if a chip takes a “DAMA”, the score is also doubled. If a “DAMA” takes a “DAMA”, the score is quadrupled.
12. In taking chip/s, the following prevail: “Mayor Dama”, “Mayor Dalawa”, “Mayor Tatlo”, etc.
13. “DAMA” chip should be encircled in the score sheet to identify the “DAMA”.
14. Game duration is twenty (20) minutes and it should not exceed twenty (20) minutes.
15. The game also ends if: the moves are repetitive, a player has no more chips to move, a player has no more chips, or a player resigns.“Save by the bell”is not applicable in the end game. Continuation of the move shall be enforced when taking chip/s.
16. The remaining chip/s of a player is/ are added to his total score algebraically. If the remaining chip is a “DAMA”, the value is doubled.
17. The player with the greater total score wins the game, except in the SCI-DAMA where the player with the lesser score wins.
18. Only the player is allowed to raise questions during the game through the arbiter and questions should be settled immediately. No questions will be entertained after the games. Arbiter’s decision is final.
19. Starting chips position are presented below:

***Damath - Integer***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | -9 |  | 6 |  | -1 |  | 4 |
| 0 |  | -3 |  | 10 |  | -7 |  |
|  | -11 |  | 8 |  | -5 |  | 2 |

***Damath - Rational***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | -9/10 |  | 6/10 |  | -1/10 |  | 4/10 |
| 0 |  | -3/10 |  | 10/10 |  | -7/10 |  |
|  | -11/10 |  | 8/10 |  | -5/10 |  | 2/10 |

***Damath - Radical***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | -9√2 |  | -√8 |  | 4√18 |  | 16√32 |
| 49√8 |  | -25√18 |  | 36√32 |  | 64√2 |  |
|  | -121√18 |  | -81√32 |  | 100√2 |  | 144√8 |

***Damath - Polynomial***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | -3x2y |  | -xy2 |  | 6x |  | 10y |
| -21xy2 |  | -15x |  | 28y |  | 36x2y |  |
|  | -55x |  | -45y |  | 66x2y |  | 78xy2 |

***Sci-Dama - Electro***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | P10 |  | 7 kwh |  | P2 |  | 5 kwh |
| 1 kwh |  | P4 |  | 11 kwh |  | P8 |  |
|  | P12 |  | 9 kwh |  | P6 |  | 3 kwh |

***Sci-Dama – Scientific Notation***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1.01x1010 |  | 7.7x10-7 |  | 2.2x102 |  | 5.5x105 |
| 1.1x10-1 |  | 4.4x104 |  | 1.111x10-11 |  | 8.8x108 |  |
|  | 1.212x1012 |  | 9.9x10-9 |  | 6.6x106 |  | 3.3x10-3 |

***Sci-Dama – THI (Temperature Humidity Index)***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 25% |  | 70°F |  | 30% |  | 75°F |
| 80°F |  | 35% |  | 85% |  | 40% |  |
|  | 45% |  | 120°F |  | 50% |  | 110°F |

***Sci-Dama – Thermodynamics***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 29g |  | 17°C |  | 3g |  | 11°C |
| 2°C |  | 7g |  | 31°C |  | 19g |  |
|  | 37g |  | 23°C |  | 13g |  | 5°C |

***Breaking the Tie (Round Robin System)***

1. ***Win over the other***
2. ***Sonneborn – Berger System*** – the sum of the scores of the opponents a player has defeated and half the scores of the players he has drawn with.
3. ***Progressive Scoring:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Round*** | ***Opponent Number*** | ***Result*** | ***Score*** | ***Progressive Scoring*** |
| 1 | 12 | WIN | 1 | 1 |
| 2 | 1 | WIN | 1 | 2 |
| 3 | 7 | DRAW | 0.5 | 2.5 |
| 4 | 11 | LOSE | 0 | 2.5 |
| 5 | 10 | WIN | 1 | 3.5 |

1. ***Progressive Score Cut*** – remove the first round then do progressive scoring. In case there is still a tie, remove the second round and so on.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Round*** | ***Opponent Number*** | ***Result*** | ***Score*** | ***Progressive Scoring*** |
|  |  |  |  |  |
| 2 | 1 | WIN | 1 | 1 |
| 3 | 7 | DRAW | 0.5 | 1.5 |
| 4 | 11 | LOSE | 0 | 1.5 |
| 5 | 10 | WIN | 1 | 1 |

1. **Science and Math Strategic Intervention Material (SIM):**
2. The participants to this competition are permanent teachers in science or math.
3. The SIM should address the least learned competency in any of the following Grade Levels:
4. Grades 3, 4, 5, 6, 7, 8, 9, and 10 for Science
5. Grades 1-10 for Mathematics
6. Each participant can submit two (2) SIM but in different grade levels.
7. The Write-up and Certification from the School Head that the SIM has been used in the school should be included in the SIM as Attachments and should be packaged as one.
8. The Title Card, Guide Card, Activity Card, Assessment Card, Enrichment Card, Reference Card, Answer Card, and Attachments should be in separate pages.
9. Contestants are required to defend their SIM to the board of judges during the division festival.
10. First place winners in Science SIM and top two (2) winners in Math SIM will be qualified to join in the regional level competition.

*(Division Memorandum No. \_\_\_\_\_, s. 2016 Enclosure No. 2)*

**JUDGES AND MEMBERS OF THE TECHNIICAL WORKING GROUP (TWG)**

|  |  |  |
| --- | --- | --- |
| **EVENT** | **Secondary** | **Elementary** |
| ***Science Investigatory Project***  ***(Physical Science)*** | *Vic A. Atto*  *Jaeriel R. Bersamina* | *MenandroBuenafe*  *HerminioDaquel* |
| ***Science Investigatory Project***  ***(Life Science)*** | *Eugene Millare*  *Mae Amalia B. Pilarta* | *Ronald B. Marquez*  *Nero M. Paderes* |
| ***Mathematics Investigation (MI)*** | *Mijurodel B. Rifareal*  *Crisostomo Balneg* | |
| ***Strategic Intervention Material (Science)*** | *Pedro Talingdan*  *Jan Nowell Peña*  *Rhoda Asencio* | |
| ***Strategic Intervention Material (Mathematics)*** | *Adelaida A. Bogayao*  *Ronila D. Garcia*  *Lorna Llaneza* | |
| ***Quiz - Science*** | ***Grade 7***  *Glaiza Bautista - QM*  *Rhea Mangaliag*  *Wilfredo Gandeza*  *JanmarPacapac* | ***Grade 3***  *ArnelinaOmli– QM*  *Jennifer Balbuena*  *Corazon Maligsa*  *MaritesGandeza* |
| ***Grade 8***  *Rosemarie Borgonia - QM*  *PacitaPilor*  *Reginald Calixto*  *Marcela Borja* | ***Grade 4***  *Marivic Regalado - QM*  *RedelmaCampoy*  *Venus Soliven*  *Josie Villanueva* |
| ***Grade 9***  *Didith Del Pintor - QM*  *Rose Baldos*  *Mayflor Concepcion*  *Sherwin Zapatero* | ***Grade 5***  *Lorenzo Marquez - QM*  *Ma. Agnes Tandoc*  *MarjuryBiag*  *Edna Severino* |
| ***Grade 10***  *Susan Mina - QM*  *MalouBasbosa*  *Jerome Antolin*  *Connie Bersamira* | ***Grade 6***  *Edina Bandolin – QM*  *Cristina Ribot*  *BernardaBringas*  *Clarisa Andres* |
| ***Quiz – Mathematics*** | ***Grade 4***  *Sharon LowelBisares - QM*  *Judith Domogma*  *Evangeline Layao*  *Judith Batino* | ***Grade 7***  *Elnora Valentino - QM*  *ArgieArdaniel*  *Juliet Aquino*  *Myrna Abbago* |
|  | ***Grade 5***  *Regina Tumalip - QM*  *Irene Leones*  *LuzvimindaTuzcano*  *Cherry Polis* | ***Grade 8***  *VioletaTebia – QM*  *Ezperanza Reyes*  *Raymond Vasquez*  *Henedy Gonzalo* |
|  | ***Grade 6***  *Myrna Campos- QM*  *Vivien Bolesa*  *William Donato* | ***Grade 9***  *CharloneBlaquera - QM*  *Rhoda May Andallo*  *Freda Poblete*  *MayleneApolinar* |
|  | ***Grade 10***  *Dante Bermillo– QMAldaPinera*  *Eddie Vasquez AlmidoGandeza* | |
| ***Quiz - Mathematics (Written)*** | *Lemuel Dickson, Jun Aguyos, &Palmero Garcia* | |
| ***Sci-Dama*** | ***Grade 7***  *Glenda Gacutan*  *Irene Pacano*  *Mary Grace Tiongson*  *JonestoBalido* | ***Grade 3&4 (Water Patrol)***  *Robert Balao-as -Chairman*  *Febonie Stock*  *Melinda Cabanaoan*  *DomingaAlcaide*  *Archie Pre*  *EveretteDionio*  *Maureen Rhocel M. Bernardez* |
| ***Grade 8***  *Jerome Antolin*  *Ferdilyn Mateo*  *ApalingSaboy*  *Bernadette Balaoro* | ***Grade 5 & 6 (Power Patrol)***  *Silvestre Quiday –Chairman*  *JesebelBagani*  *Laureto Gasmen Jr.*  *EmilsonPescuro*  *Manuel Dupo* |
| ***Grade 9***  *Analyn Hernandez*  *Janssen Tordil*  *Joseph Sanidad*  *Gerry Martinez* | ***Grade 10***  *Jean Franco*  *LailanieJagias*  *Lester Biernes* |
| ***Damath*** | ***Grade 7***  *RyanwalterTaa - Chairman*  *Elena Bose - R*  *Palmero Garcia*  *JenacelBayongan*  *RodelioClaor*  *SalaknibDanggalan*  *Cecilia Martinez* | ***Grade 3 &4***  *JomarBrub - Chairman*  *Rosemarie Segundo - R*  *CelsoCabatic*  *AngelitoAbanilla*  *Jun JunCortel*  *Jerome Velasco*  *Salvador Aprecio* |
| ***Grade 8***  *Rogelio Mangaliman - Chairman*  *Arlene Fontanilla -R*  *Jocelyn Progresso*  *Francis Buyag*  *Evangeline Rodriguez*  *Regor Velasco*  *PancrasioBalmaceda* | ***Grade 5 & 6***  *Joel Tollas - Chairman*  *Shirley Britos- R*  *Emely Virgo*  *Franny Velasco*  *William Basingan*  *Jose Marie John Buena* |
| ***Grade 9***  *MaritessBalido - Chairman*  *Aurelia Barroga - R*  *Reynaldo Bolante*  *RomeloSantua*  *Charlemagne Buenafe*  *NeruBaculi*  *Robert Dawigay* | ***Grade 10***  *JovinaBaga - Chairman*  *Glenda Ciervo - R*  *RollyBisquera*  *Aldemar C. Ambre*  *Carlos Manuel*  *ElvieTejero*  *Carlo Buenafe* |

*(Division Memorandum No. \_\_\_\_\_, s. 2016 Enclosure No. 3)*

2016 DIVISION SCEINCE AND MATH FESTIVAL

Theme: “Juan Science, Juan Math, Juan Nation”

(REGISTRATION FORM)

School/ District: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **EVENTS** | **CONTESTANT** | **COACH** |
| **Science Quiz** |  |  |
| Grade 3/ 7 |  |  |
| Grade 4/ 8 |  |  |
| Grade 5/ 9 |  |  |
| Grade 6/ 10 |  |  |
| **Mathematics Quiz** |  |  |
| Grade 7 |  |  |
| Grade 4/ 8 |  |  |
| Grade 5/ 9 |  |  |
| Grade 6/ 10 |  |  |
| Written |  |  |
| **Sci-Dama** |  |  |
| Water Patrol (G3/G4) |  |  |
| Power Patrol (G5/G6) |  |  |
| Electro (G7) |  |  |
| Sci-Not (G8) |  |  |
| THI (G9) |  |  |
| Thermo (G10) |  |  |
| **Damath** |  |  |
| Whole Number (G3/G4) |  |  |
| Positive Fraction (G5/G6) |  |  |
| Integer (G7) |  |  |
| Signed Fraction (G8) |  |  |
| Radical (G9) |  |  |
| Polynomial (G10) |  |  |
| **Strategic Intervention Material - SCIENCE** |  |  |
| Grade 3/ 7 |  |  |
| Grade 4/ 8 |  |  |
| Grade 5/ 9 |  |  |
| Grade 6/ 10 |  |  |
| **Strategic Intervention Material - MATH** |  |  |
| Grade 3/ 7 |  |  |
| Grade 4/ 8 |  |  |
| Grade 5/ 9 |  |  |
| Grade 6/ 10 |  |  |
| **Math Investigation (MI)** |  |  |
| Individual | 1. |  |
|  | 2. |  |
|  | 3. |  |
| Team | 1. |  |
|  | 2. |  |
|  | 3. |  |
| **Science Investigatory Project (SIP)** |  |  |
| Physical: Individual | 1. |  |
|  | 2. |  |
|  | 3. |  |
| Physical: Team | 1. |  |
|  | 2. |  |
|  | 3. |  |
| Life: Individual | 1. |  |
|  | 2. |  |
|  | 3. |  |
| Life: Team | 1. |  |
|  | 2. |  |
|  | 3. |  |

|  |  |
| --- | --- |
| Number of Pupils/ Students |  |
| Number of Coach |  |
| Total Amount Paid |  |

Cashier’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_