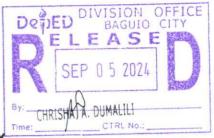


Department of Education

CORDILLERA ADMINISTRATIVE REGION
SCHOOLS DIVISION OFFICE OF BAGUIO CITY



September 4, 2024

DIVISION MEMORANDUM

No. 494-2024

2024 DIVISION SCIENCE FESTIVAL

- 1. In recognition to the importance of fostering a culture of innovation and scientific inquiry among learners and teachers, this office through the Curriculum Implementation Division will conduct the **2024 Division Science Festival** on October, 19 & 26, 2024.
- 2. The activity aims to:
- a. Develop and strengthen the Science, Technology, Engineering and Mathematics (STEM) skills of learners through the conduct of **Quiz Bee**, **SciDama**, and **Science** and **Technology Fair**;
- b. Enhance learners' science process/research skills, critical thinking, and problem-solving abilities;
- c. Foster collaboration among stakeholders in promoting sustainable development through innovation; and
- d. Promote innovation and scientific exploration on local products of the region to enhance and improve the quality and maximize its marketability through the conduct of **Research Innovation and Scientific Exploration (RISE) Expo.**
- 3. Each school is encouraged to mobilize organizations, promote collaboration across learning areas and conduct school level activities in preparation to the district level competition. Attached are the criteria for judging and the timeline of activities. Venues and TWGs will be announced later.
- 4. For clarification or inquiries, please get in touch with Ms. Juliet C. Sannad, Chief of the CID at (074) 619-3491.
- 5. Immediate and wide dissemination of this Memorandum is desired.

SORAYA T. FACULO, PhD, CESO VI p

Assistant Schools Division Superintendent
Officer-in-Charge
Office of the Schools Division Superintendent













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2024 Division Science Festival

I. TIMELINE

No.	Activities	Timeline
1	Science Club Month Celebration/School Level activities	September
2	District Level Elimination-Quiz Bee, SciDama, RISE	September to October
3	Division orientation of science coordinators on the different events	September 28, 2024
4	Submission of RISE manuscript	October 14, 2024
5	Division Quiz Bee	October 19, 2024
6	Research Innovation Scientific Exploration Division Expo	October 19, 2024
7	Submission of Science Investigatory Projects for Division Scientific Review (SRC)	October 10, 2024
8	Division Science and Technology Fair	October 26, 2024
9	Division SciDama	October 26, 2024

II. MECHANICS

A. Science and Technology Fair

a. Theme: "Towards a Shared Vision: Exploring the Future for a Better Tomorrow"

b. Categories

Individual	Team	
Life Science	Life Science	
Physical Science	Physical Science	
Robotics and Intelligent Machines	Robotics and Intelligent Machines	
Mathematics and Computational	Mathematics and Computational	
Science	Science	
Innovation Expo	Innovation Expo	

c. Eligibility

- 1. Open to Grades 9-12 learners from both public and private schools.
- 2. The project should include no more than 12 months of continuous research and should not include research activities performed before January of the previous school year (For school year 2024-2025, research projects may be accomplished within 1-12 month/s starting from January 2024 to January 2025
- 3. Top 3 school winners in each category may submit for screening by the division Scientific Review Committee (SRC) and qualifiers will advance to the Division Science and Technology Fair.











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d. General Procedure

 Submit three (3) hard(color-coded) and digital copies of the research manuscripts and other requirements (forms, etc) to the DSTF focal person, EPS, with the attached report of the conduct of the School Science and Technology Fair and endorsement by the school head on or before October 10, 2024(See Appendix 16 for the color-coding). For the parts of the manuscripts and required forms, refer to:

DepEd (2023). School, Division, Regional, and National Science and Technology Fair Guidebook.

- 2. For qualifiers, submit three (3) soft-bounded hard copies of the color-coded manuscripts with tags to identify the revisions done based on the review and Recommendation Report. List of qualifiers will be issued on or before October 21, 2024.
- 3. List of Qualifiers, schedule of setting up of display boards, and mechanics for the submission of the school shout out will be issued on or before October 21, 2024.

e. Cash Prizes

Award	Cash Prize	
First Place	4,500.00	
Second Place	3,000.00	
Third Place	2,000.00	

B. Quiz Bee

a. The participants will be the Top1 per district per grade Level. Participants may come from private or public schools.

Grade Level	Participants	Coverage
3	-	First and Second Quarter topics;
4	District Top1,	Basic Science Process Skills
5	Individual	
6		
7	District Top1,	First and Second Quarter topics
8	Individual	Basic and Integrated Science
9		Process Skills
10		
11 & 12	District Top1, Team of three, non-STEM students	Earth and Life Science Physical Science Basic and Integrated Science Process Skills
11&12	School Top 1, Team of three, STEM students	General Biology I General Biology 2 General Physics 1 General Chemistry 1







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	Basic and Integrated Science Process Skills
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b. The quiz consists of three rounds: EASY, AVERAGE, and DIFFICULT questions.

Round/Category	Type of Question	Time Limit	Credit
Easy	Multiple Choice, 4 options (A, B, C, D)	10 seconds	10 points (1 point per question)
Average	Multiple Choice, 4 options (A, B, C, D)	20 seconds	20 points (2 points per question)
Difficult	Without option- identification or problem solving	30 seconds without computation 60 seconds-with computation	30 points (3-points per question)
Clincher (tie breaker)	Without option- identification or problem solving	30 seconds without computation 60 seconds-with computation	1 point

c. Preparation of Questions

- 1. Each participant will prepare questions: Two (2) Easy, two (2) Average, two (2) Difficult, and two (2) Clincher.
- 2. Each question will be typewritten on a 1/3 bond(long). Include the answer.
- 3. One out of the EASY, AVERAGE, and DIFFICULT questions shall be on assessment of science process skills in the context of the given topics/content.

Basic Science Process Skills

Observing - using the senses to gather information about an object or event. Example: Describing a pencil as yellow.

Inferring - making an "educated guess" about an object or event based on previously gathered data or information. Example: Saying that the person who used a pencil made a lot of mistakes because the eraser was well worn.

Measuring - using both standard and nonstandard measures or estimates to describe the dimensions of an object or event. Example: Using a meter stick to measure the length of a table in centimeters.

Communicating - using words or graphic symbols to describe an action, object or event. Example: Describing the change in height of a plant over















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time in writing or through a graph.

Classifying - grouping or ordering objects or events into categories based on properties or criteria. Example: Placing all rocks having certain grain size or hardness into one group.

Predicting - stating the outcome of a future event based on a pattern of evidence. Example: Predicting the height of a plant in two weeks time based on a graph of its growth during the previous four weeks.

Integrated Science Process Skills

Controlling variables - being able to identify variables that can affect an experimental outcome, keeping most constant while manipulating only the independent variable. Example: Realizing through past experiences that amount of light and water need to be controlled when testing to see how the addition of organic matter affects the growth of beans.

Defining operationally - stating how to measure a variable in an experiment. Example: Stating that bean growth will be measured in centimeters per week.

Formulating hypotheses - stating the expected outcome of an experiment. Example: The greater the amount of organic matter added to the soil, the greater the bean growth.

Interpreting data - organizing data and drawing conclusions from it. Example: Recording data from the experiment on bean growth in a data table and forming a conclusion which relates trends in the data to variables.

Experimenting - being able to conduct an experiment, including asking an appropriate question, stating a hypothesis, identifying and controlling variables, operationally defining those variables, designing a "fair" experiment, conducting the experiment, and interpreting the results of the experiment. Example: The entire process of conducting the experiment on the effect of organic matter on the growth of bean plants.

Formulating models - creating a mental or physical model of a process or event. Examples: The model of how the processes of evaporation and condensation interrelate in the water cycle.

d. Contest Proper

- 1. Upon registration, the contestants shall be directed to their seats.
- 2. The coaches shall convene to submit and deliberate the questions.
- 3. Each question in the three rounds will be read twice. After the quizmaster reads the question the second time, he/she will say "GO", ONLY then the participants will write their answers. When the time is up, the quizmaster will say, "Markers Up". The participants will hold their markers up and their answers. The scorers will record their answers accordingly. A cumulative score per participant will be











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announced by the Quizmaster after each round before going to the next segment. The total score for the three rounds will be 60 points.

- 4. In case of a tie, tie breaker(clincher) question/s shall be asked until a definite winner emerges.
- 5. The participants will be provided with the papers where they will write their answers but they will bring their markers.

C. Sci-Dama

a. Participants

1. Open to Grades 3-10 learners from private and public schools. Elementary: Top 2 per District

High School:

District	Top	District	Тор
1	2	6	2
2	2	7	3
3	4	8	2
4	2	9	2
5	2	10	3

b. Category per Grade Level

Grade Level	Category	
3	Water Patrol	
4	Water Patrol	
5	Power Patrol	
6	Power Patrol	
7	Electro SciDama	
8	Dama Sci-Notation	
9	THI Sci-Notation	
10	Thermo SciDama	

c. Rules

Refer to DECS Memorandum 363 s. 1999

D. Research Innovation and Scientific Exploration (RISE) Division Expo

- a. The event is open to JHS and SHS students from public and private schools
- b. Participants to the Division Level are the Top 3 winners in the District RISE Expo in the ff categories:

Key Stage	Individual	Team (3 members)
JHS	District Top 3	District Top 3
SHS	District Top 3	District Top 3











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c. Description and Mechanics (refer to RM 358 s 2024)

2024 RISE Regional Expo (Research, Innovation, Scientific Exploration)

Component Area	Science, Mathematics, English, Technology, Ca	ulture &
Key Stage	Key stage 3 and 4	
Event Title	RISE Regional Tournament	
No. of	JHS = 1 (individual), 3 (Team) = 4	
participants	SHS = 1 (individual), 3 (Team) = 4	
Performance Standard	Obtain scientific and technological informativaried sources and utilize the information gat innovate and improve the quality of existiproducts and/or create products useful community utilizing the scientific process in problems.	hered to ng loca to th
21st Century Skills	Critical thinking, Communication skills, Com	literacy
Description	RISE Expo is a new event under IPED that science and culture to develop the 21st century learners at the same time enhances the inceproducts of the community. It allows learners science, mathematics, and communication well as their ICT skills in improving local p While they appreciate the culture of the communication will investigate ways on making it more and appropriate to the taste and needs of generation.	skills of digenous to apply skills as products amunity attractive
Criteria for		
Judging		
	Originality and Creativity	
	This criterion assesses the uniqueness and innovation of the project. It looks at how the research addresses a problem in a novel way.	25%
	uniqueness and innovation of the project. It looks at how the research addresses a problem in a novel way. 2. Community Connection & Impact	25%
	uniqueness and innovation of the project. It looks at how the research addresses a problem in a novel way. 2. Community Connection & Impact This criterion evaluates how the	
	uniqueness and innovation of the project. It looks at how the research addresses a problem in a novel way. 2. Community Connection & Impact This criterion evaluates how the innovation research benefits the	
	uniqueness and innovation of the project. It looks at how the research addresses a problem in a novel way. 2. Community Connection & Impact This criterion evaluates how the innovation research benefits the community or society. It assesses the project's potential to make a positive	
	uniqueness and innovation of the project. It looks at how the research addresses a problem in a novel way. 2. Community Connection & Impact This criterion evaluates how the innovation research benefits the community or society. It assesses the	











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This criterion examines the	
commercial viability of the	
innovation. It considers the potential	
market demand, scalability, and	
sustainability of the project.	
4. Functionality	20%
This criterion evaluates the practical	
functionality and performance of the	İ
innovation. It assesses how well the	
innovation functions and whether it	
meets the intended objectives.	
Researchers should demonstrate	
evidence of successful testing,	
validation, or prototypes to support	
the claims of the innovation's	
effectiveness	
5. Product presentation	10%
This criterion looks at how effectively	1070
the innovation and research are	
presented to the audience. It	
assesses the clarity, coherence, and	
visual appeal of the poster display	
and any supplementary materials.	
Additionally, researchers' ability to	
communicate the innovation's key	
features, benefits, and impact in a	
compelling and engaging manner is	
considered. The criterion also	
considers how well the researchers	
answer questions.	1000
Total	100%
 The criteria were adopted from the National Science and Technology Handbook of the Department of Education. 	







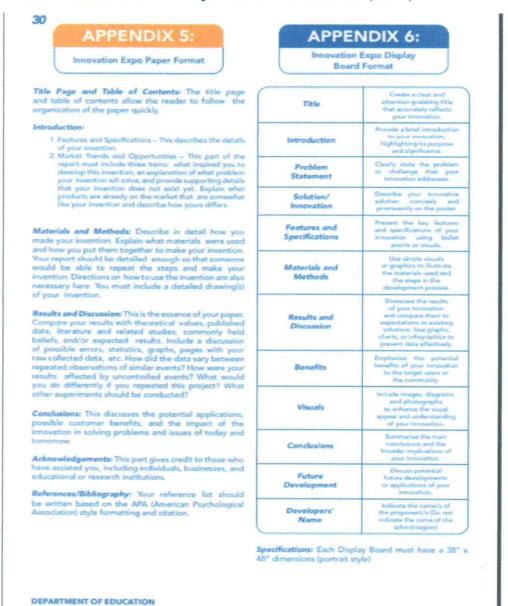




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d. The innovation paper format is adapted from the Science and Technology Fair Guidebook of the Department of Education (2023):



e. Submission of innovation expo manuscript (3 copies) will be on October 14, 2024. Folder color will be as follows:

	JHS	SHS
Individual	green	red
Team	blue	brown

- f. Display, presentation and judging will be on October 19, 2024.
- g. The First and Second Place winners will participate in the **Research** Innovation and Scientific Exploration (RISE) Regional Expo.







