



Republic of the Philippines
Department of Education
Region II – Cagayan Valley
SCHOOLS DIVISION OF NUEVA VIZCAYA

16 September 2024

DIVISION MEMORANDUM

No. 395, s. 2024

2024 SEARCH FOR THE MOST FUNCTIONAL MOBILE SCIENCE LAB CART

To: Assistant Schools Division Superintendent
Chief ES, CID
Education Program Supervisors
Public Schools District Supervisors/District In-charge
Public Elementary & Secondary/Integrated School Heads
All Others Concerned

1. The Schools Division Office of Nueva Vizcaya through the Curriculum Implementation Division is pleased to announce the conduct of the 2024 Search for the Most Functional Mobile Science Lab Cart as one of the activities during the 2024 Division Science & Technology Fair on a date and venue to be announced later.
2. This activity aims to:
 - a) Enhance Science Education: Enhance learners' understanding of scientific concepts through hands-on and experiential learning. Explore and identify the most effective and efficient designs for mobile science lab carts that can accommodate a wide range of scientific experiments and educational activities;
 - b) Promote Scientific Innovation: Foster a culture of innovation, curiosity, and exploration among learners and teachers.
 - c) Bridge Educational Gaps: Ensure that quality science education is available across borders, regardless of location, size, and type of schools.
3. Attached are the Contest Mechanics, General Procedures, and Guidelines of the 2024 Search for the Most Functional Mobile Science Lab Cart.
4. Meals and snacks, traveling, and other incidental expenses of participants relative to the conduct of this activity shall be charged to the school MOOE or any local funds subject to the usual auditing and accounting rules and regulations.
5. For information, guidance, and compliance.

ORLANDO E. MANUEL PhD, CESO V
Schools Division Superintendent



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2024 SEARCH FOR THE MOST FUNCTIONAL MOBILE SCIENCE LAB CART
cum **Project ScIE LAB - Scientific Innovation and Exploration:**
Learning Across Borders

Project ScIE LAB - Scientific Innovation and Exploration: Learning Across Borders is an educational initiative designed to enhance school science education. The heart of the project is the Search for the Most Functional Mobile Science Lab Cart. The cart is designed to be highly functional, portable, and adaptable to key stages 2 to key stage 4. Each cart is equipped with instruments, experiment kits, and ICT-based resources, enabling hands-on learning experiences across multiple disciplines, including biology, chemistry, physics, earth science, and environmental science. The carts are tailored to be user-friendly, ensuring that both learners and teachers can easily use them in diverse classroom environments.

Project Objectives

1. **Enhance Science Education:** Enhance learners' understanding of scientific concepts through hands-on and experiential learning. Explore and identify the most effective and efficient designs for mobile science lab carts that can accommodate a wide range of scientific experiments and educational activities;
2. **Promote Scientific Innovation:** Foster a culture of innovation, curiosity, and exploration among learners and teachers.
3. **Bridge Educational Gaps:** Ensure that quality science education is available across borders, regardless of location, size, and type of schools;

Project Scope

- **Target Participants:** Select learners and teachers in the elementary schools in the 23 districts and 60 secondary and integrated schools in the division
- **Core Activities:** Search for the Most Functional Mobile Science Lab Cart - Elementary and Secondary Levels

Eligibility

1. The search is open to Key Stage 2 to Key Stage 4 learners and Science Teachers in the public elementary and secondary schools in the division.
2. It should be a learner-teacher tandem from the same school. Each team is only allowed to submit one mobile science lab cart. There shall be 23 teams for elementary and 60 teams for secondary/integrated schools.
3. Teacher-participants must be teaching science subjects in any grade level.



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Project ScIE LAB Categories

The Search for the Most Functional Mobile Science Lab Cart has two (2) categories;

- a) Most Functional Mobile Science Lab Cart – Elementary Level
- b) Most Functional Mobile Science Lab Cart – Secondary Level

General Procedures and Guidelines

A) School or District Search for the Most Functional Mobile Science Lab Cart

1. Each secondary school must have its school-based search. Only one team composed of 1 learner and 1 teacher shall join the division competition.
2. Likewise, each district shall also conduct its district-based search. Only 1 team from the same school per district shall join the division competition.
3. Materials to be used and the dimensions of the mobile science lab cart depend on the discretion of the participating schools.

B) During the Division Search

1. Participants shall bring their Mobile Science Lab Cart to be displayed in the contest venue.
2. A printed copy of the short write-up of the innovation shall be presented to the management team and board of judges.
3. The learner and teacher participants must be in their school uniform.
4. Presentation of the innovation to the members of the panel of judges shall be done in the display area through a question and answer portion.
5. There will be three winners per category (Elementary & Secondary).
 - Champion – Most Functional Mobile Science Lab Cart
 - 1st Runner Up - Most Functional Mobile Science Lab Cart
 - 2nd Runner Up - Most Functional Mobile Science Lab Cart
 - Special Awards
6. The decision of the panel of judges is final.

Timeline

1. School-based Search – 2nd week of October
2. District-based Search – 3rd – 4th week of October (Elementary Schools)
3. Division Search – 1st week of November



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Criteria for Judging

Indicators	Description	Points
Innovation, Creativity, and Technological Integration	<p>Evaluate the uniqueness and originality of the mobile lab cart's design, concepts, and approach. Consider how it introduces new methods or ideas in science education.</p> <p>Examine the use of technology, such as ICT/digital tools, or scientific instruments, and how these enhance the science learning experience.</p>	30
Educational Impact	<p>Assess the effectiveness of the mobile lab cart in enhancing science learning. This includes the quality and depth of its educational content, as well as the ability to inspire and engage learners.</p>	30
Accessibility, User Experience, Durability, and Engagement	<p>Consider the mobile lab cart's ability to serve diverse learners and classes. Evaluate its mobility, ease of access, geographic reach, and inclusivity. Capable of enduring wear, tear, or damage over time.</p> <p>Look into the overall user experience, including the interactivity of the exhibits, ease of use, and how well it engages learners, teachers, and other participants</p>	20
Scalability, Adaptability and Cost-Effectiveness	<p>Evaluate the potential for the mobile lab cart to be scaled or adapted to different contexts, environments, or levels, ensuring it remains relevant and effective over time.</p> <p>Consider the financial viability of it, including operational costs, affordability for schools, and the value it delivers relative to its cost.</p>	20
TOTAL		100