



Republic of the Philippines
Department of Education
Cordillera Administrative Region
SCHOOLS DIVISION OF BAGUIO CITY

ADVISORY NO. 010,2024

March 22, 2024

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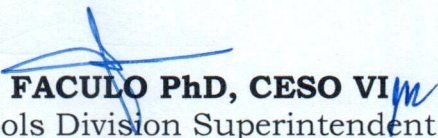
ANDROMEDA ASTRONOMY EVENT

The Andromeda Mobile Planetarium, an affiliate member of the Philippine Astronomical Society, is conducting the Andromeda Astronomy Event in various schools in June 2024.

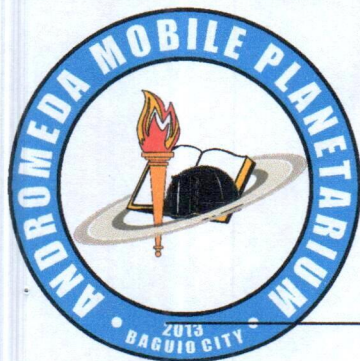
Enclosed are the details of the events for your reference and information. Participation and expenses on the said activity is personal and voluntary, and shall be subjected to the “no-disruption-of classes” policy stipulated in DepEd Order No. 9, s. 2005, titled “Instituting Measures to Increase Engaged Time-On-Task and Ensuring Compliance Therewith”.

For more queries, contact:

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Andromeda Mobile Planetarium
Mobile Phone Number: 0921-201-1271
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SORAYA T. FACULO PhD, CESO VI
Assistant Schools Division Superintendent
OIC – Office of the Schools Division Superintendent





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ADDRESS: Block 1, Lot 26, Ciudad Grande, Phase 2, Baguio City

ACTIVITY DESIGN

I. TITLE : “ ANDROMEDA ASTRONOMY EVENT ”

School Based Activity on Strategic Individual Development in Science.

II. RATIONALE:

Nowadays, most of our younger citizens are not aware of the “Beauty of the Universe”, the effect of El Nino and La Nina to our global climate, the damage inflicted upon the atmosphere caused by carbon-burning. Such situation poses an alarm to us because it sounded more than a siren of precautionary bells for the future of our mother Earth and mankind. Thus, inculcating awareness and responsiveness to every individual through “**ASTRONOMY EDUCATION**” should be invigorated and incorporated to strengthen science learning.

One of the vital problems of teachers why most of the learners have a poor performance in the school is due to lack of materials and modern techniques in science were not employed in the classroom situation. Astronomical concepts and images have universal appeal, inspiring wonder and resonating uniquely with human questions about our nature and our place in the universe.

The teachers must use varied, exciting and interactive activities with visual aids to ensure the mastery of the competency. The use of strategic intervention materials with meaningful activity will definitely make a big difference.

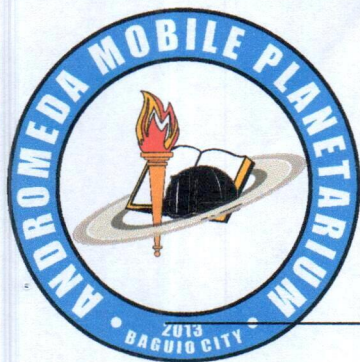
In fact, teachers play a significant role in improving the teaching-learning process and it is necessary to update them about innovative teaching strategies.

III. ACTIVITY OBJECTIVES:

- Promote and disseminate astronomical discoveries among the students and the public in general;
- Upgrade teachers on the trends related to Astronomy;
- Implement fun, interactive and educational activity that would serve as a helpful discussion starter and teaching tool;
- Aid teachers in stimulating and sustaining the interest of the learners using visual presentation and simulations.
- Empower the students to grasp abstract astronomical ideas and events and make them realize the impact of astronomy and other science in our daily lives, and understand how scientific knowledge can contribute to a more equitable and peaceful society.

IV. ISSUES AND THEME:

<i>THEME</i>	<i>ISSUES</i>
Astronomy	<ul style="list-style-type: none"> • Action Projects Related to the Theme • Predictability of the Planets. • Regularity of the motion of the sun in the sky. • Spectroscopy and nuclear fusion. • Cycles of the heavenly bodies. • Positioning of the stars. • Space-based Telescopes and Satellites.



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V. SUSTAINABILITY PRINCIPLES:

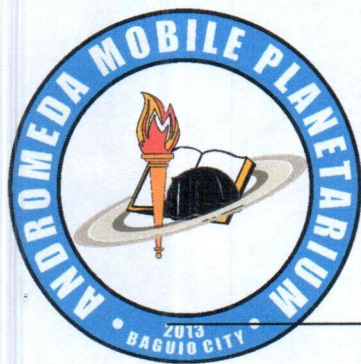
<i>Sustainability Principle</i>	<i>EXPLANATION</i>
Biases Minimization	Different points of view are presented to address the issues.
Respects Complexity	Questions are entertained regardless of complexity. A systems-thinking approach is encouraged.
Personal Affinity with Earth	Contribution of astronomy to technology, economy and society. It continues to revolutionize our thinking on a world wide scale by using it to measure time, mark the seasons and navigate the vast oceans.
Industrially Focused	Astronomy helped the advancement of imaging and communication. Radio astronomy has provided a wealth of useful tools, devices and data processing method.
Past, Present & Future	Promotes an understanding of the past, a sense of the present, and a positive vision of the future.

VI. PEDAGOGICAL APPROACHES:

<i>APPROACHES</i>	<i>EXPLANATION</i>
Direct Instruction	We teach the students facts that can help them in receiving higher marks on their exams related to our theme.
Co-operative Learning	We present astronomy by grouping the students in an orderly manner. Students will think and discuss by group that can help them enhance their cooperative learning skills.
Assessment or Student Learning Evaluation	We assess the students if they were able to grasp something out of our discussion. In this way, we can help the students achieve their specific learning goals and at the same time we can improve our teaching effectiveness as they give immediate feedback on our discussion.
Experiential Learning	We provide authentic learning to the students wherein we allow the students to participate in our hands-on activities like using of the telescope, exploring the meteorites, and being involved in the weight and mass outside Earth.

VII. ACTIVITY METHODOLOGIES:

<i>ACTIVITY</i>	<i>EXPLANATION</i>
Lecture and Discussion	For lecture and discussion, we provide students insights about the solar system, galaxies, and the universe itself. After the discussion, the lecturer and the students will participate in a question and answer activity.
Film Showing	For the film showing, we show the students the lives of the astronauts going outside the Earth. In additional, we discuss how latest information regarding the solar system, galaxies and the universe.
Simulation	For the simulation, we let the participating students inside a mobile planetarium dome for them to witness the impact of astronomy to the modern society.



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VIII. GUIDE QUESTIONS:

SUN SPOT

- What are the temporary phenomena on the sun's photosphere that appear to be darker and cooler compared to the other parts of the sun?
- How sunspots are formed?

SOLAR SYSTEM

- Name the eight planets in our Solar System in order.
- Name the planet with the longest year and the planet with the shortest year.
- Identify all planets in our Solar System with ring system.
- What is the real reason why Pluto became a dwarf planet?

METEORITES

- What do you call an object mainly composed of rock, iron or stony iron that recovered after passing through our atmosphere and crashed on Earth?
- It is the largest meteorite found on our planet as a single piece.

IX. ASSESSMENT CRITERIA:

1. Knowledge of the Solar System.
2. Different planets are identified in order and characterized as they revolve around the sun.
3. Basic navigational signs used in identifying the four directions (North, South, East, West).
4. Fascinating facts about space, galaxies, stars, solar system and human attempts to explore the cosmos.

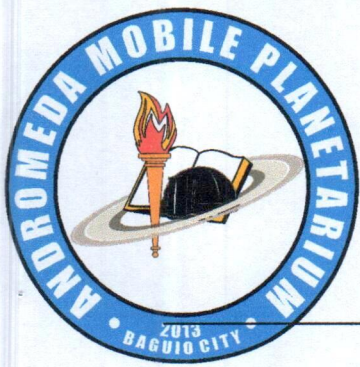
X. EVALUATION / ASSESSMENT METHODS:

- Interview
- Written Examination

XI. LEARNER'S OUTPUT

Andromeda Mobile Planetarium is more of an interactive group participation. Meaning it is a two way process for the community and the lecturer. We believe that collaborative learning develops the critical thinking of the students. The lecturer serves as a facilitator for learning because they view the teaching process as a method of enhancing the learning abilities of the students. The students working and thinking in groups involved were able to create and manage meaningful learning experiences and stimulation through real world problems involved in astronomy. When the students worked in groups, it resulted to cooperation and good performance in students' thinking and comprehension.

- Students were able to learn how the different heavenly bodies affect each other. Like how the Sun affects how much of the Moon we see every night.
- Students learn that the Moon is a sphere.
- Students learn that the same side of the moon always faces us because of the Moon's monthly cycle of rotation and revolution.
- The students are able to know that the constellations are naturally occurring phenomena that have been grouped and labeled by people in attempts to explain their existence. Such



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organizations were made to explain the stable of groupings of stars and create a systematic and organized way of those we have yet to know.

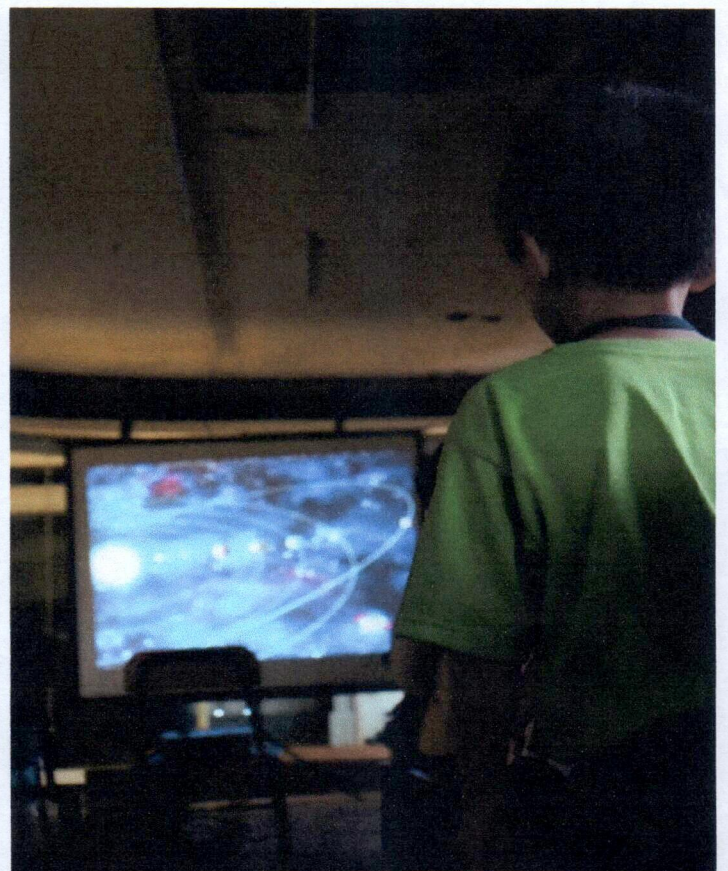
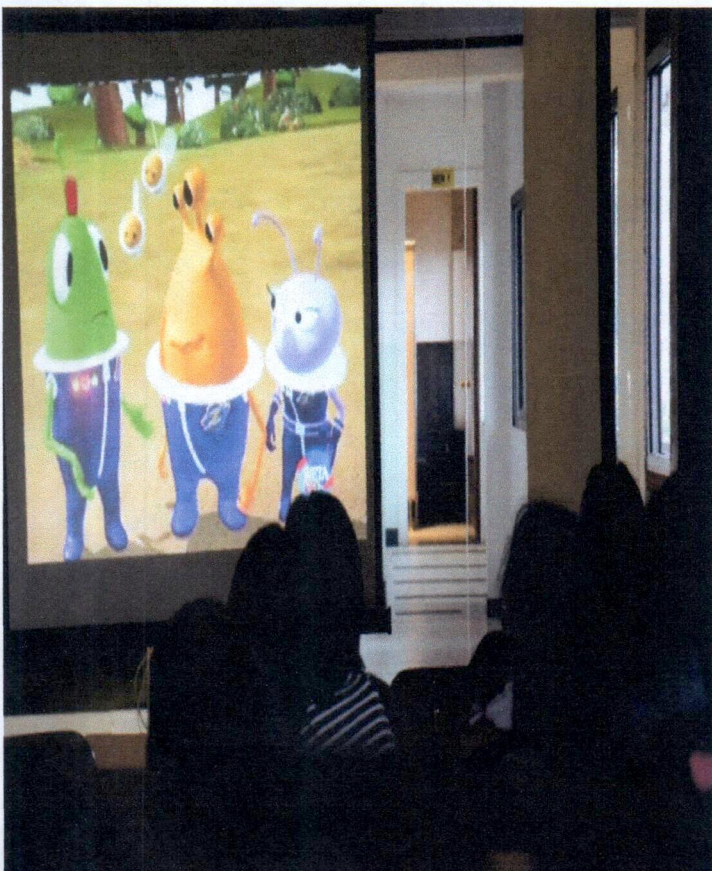
XII. PARTICIPANTS:

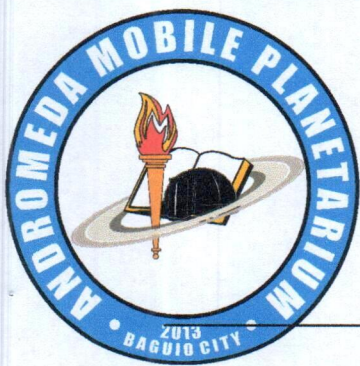
<i>PARTICIPANTS</i>	<i>EXPLANATION</i>
Students (Elementary & High School)	To implement fun, interactive and educational activity to inculcate to the students the beauty of the universe. Also, to empower the students to grasp astronomical ideas on how it can affect our daily lives.
Teachers	To help the teachers on trends related to astronomy and to aid teachers in sustaining the interest of the students using visual presentations and simulations.
Community	To promote astronomy awareness to the community and let them understand how scientific knowledge can contribute to a more equitable society.

XIII. ACTIVITY MATRIX:

- Two (2) Hour Laudable experience.
- Definite schedule for every school will be after presentation and approval of Parents, Teachers Association starting January 2024 to June 2024..

Activity 1 – Film Showing and Discussion / Question and Answer (30 minutes)

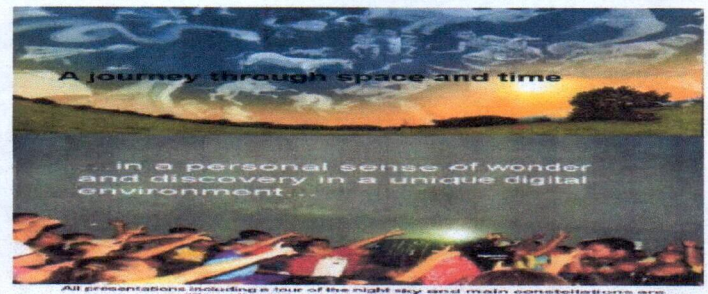
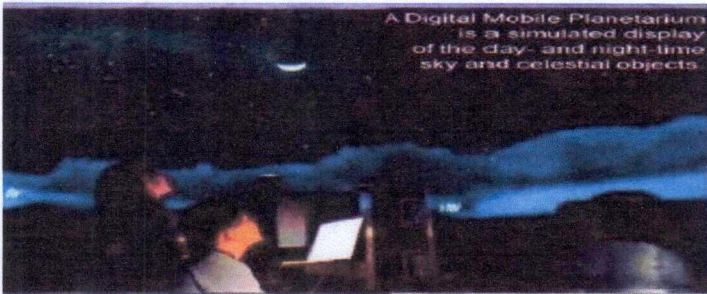




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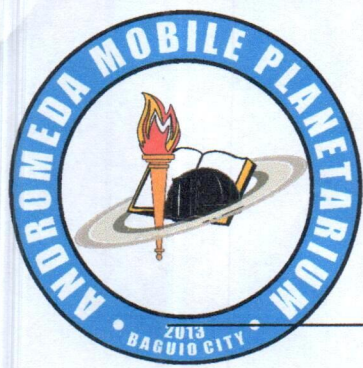
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Activity 2 – Projected Simulation of the Solar System/ Constellations (30 minutes)



Activity 3 – Exhibit NASA SPACE PHOTOS and METEORITES (30 minutes)





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Activity 4 – (Solar Gazing) Individual hands-on use of the Telescope (30 minutes)



XIV. ACTIVITY BUDGETARY REQUIREMENT:

- Minimal Fee of ONE HUNDRED PESOS (Php 100.00) per student.

In this connection, we would like to request permission from your good office to conduct this **VOLUNTARY, NON-COMPULSARY** astronomy strategic development program. We will work closely with your office to develop a program that meets your school's mission and vision and to help the students recreate themselves and discover their place in the universe.

We would be happy to discuss with you or your representative at your most convenient time the details of this laudable endeavor. Please feel free to contact the undersigned at anytime. Thank you and Mabuhay!

With you in service,

NORMAN L. MACARIO
Marketing/Event Coordinator
CP No: 0921-2011271