

**DR. MAY B. ECLAR**  
OIC, DepEd Cordillera Administrative Region  
Wangal, La Trinidad, Benguet

**SUBJECT: Request Approval to present Educational Astronomy Activity to different Schools /  
(DepEd Advisory No. 151, Series 2018 )**

FILED DIVISION OFFICE  
BAGUIO CITY  
SEP 25 2018

Dear Dr. Eclar:

Greetings! The availability of a good quality informative material is one important component of an effective teaching-learning process in providing the necessary information to our students and our citizenry as a whole. Teaching Astronomy is fun and easy thru the use of Mobile Planetariums. Students learn about the different planets, constellation, star formation, meteor shower and other celestial objects with fascination and curiosity.

Our company, ANDROMEDA MOBILE PLANETARIUM an affiliate member of Philippine Astronomical Society (PAS) is one with the Department of Education in promoting effective teaching-learning process through the use of strategic intervention materials with meaningful activities. Hence, the experience empowers the students a good grasp of astronomical ideas making them realize the impact of astronomy in their daily lives and enabling them understand how scientific knowledge contribute to a more equitable and peaceful society. It has been observed that some of the teachers presently teaching the subject has not even used an actual Telescope. With that situation, our company now fills in the gap by providing these materials in which our government cannot provide.

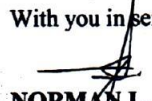
This is a great opportunity and privilege to introduce to you our program "ANDROMEDA ASTRONOMY EVENT" – a laudable, enlightening and innovative activity for people from all walks of life. An innovative event that is highly recommended for students to inspire and encourage them to explore the beauty and wonders of our expanding universe.

In this connection, we are praying for your valuable recommendation and/or approval from your good office to conduct this voluntary, non- compulsory 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.

Please do not hesitate to verify the program and other details at  
CP No: (0921) – 2011271  
E-mail: [nlmac2000@yahoo.com](mailto:nlmac2000@yahoo.com)  
Facebook: Andromeda Mobile Planetarium

Thank you very much and we are looking forward to a productive, harmonious and meaningful partnership with you.

With you in service,



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

RELEASED  
SEP 20 2018

DEPED-CAR



Republic of the Philippines  
**Department of Education**  
Cordillera Administrative Region  
Wangal, La Trinidad, Benguet



**ADVISORY**

September 17, 2018


**TO: SCHOOLS DIVISION SUPERINTENDENTS  
ALL DIVISIONS  
ALL CONCERNED**

To: All School Administrators, Principals & Teachers in Charge  
(Elementary & Secondary)

**FOR YOUR INFORMATION & APPROPRIATE ACTION**

  
**FEDERICO P. MARTIN, Ed.D, CESO VI**  
Schools Division Superintendent

In compliance with **DepEd Order No. 9, s. 2005** entitled "Instituting measures to increase engaged time-on-task and ensuring compliance therewith".

  
**MAY B. ECLAR, Ph.D., CESO V**  
Regional Director

Advisory No. 151, s. 2018

July 30, 2018

In compliance with DepEd Order No. 8, s. 2013  
this Advisory is issued for the information of DepEd officials,  
personnel/staff, as well as the concerned public.  
(Visit [www.deped.gov.ph](http://www.deped.gov.ph))

#### ANDROMEDA ASTRONOMY EVENT

The Andromeda Mobile Planetarium will conduct the Andromeda Astronomy Event 2018 in public and private schools nationwide. This is a series of school-based activities on strategic individual development in Science.

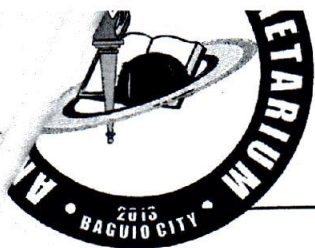
The activity aims to:

1. promote Astronomy awareness among learners and the general public;
2. update teachers on trends related to Astronomy;
3. implement fun, interactive, and educational activities, which would serve as helpful discussion starters and teaching tools;
4. aid teachers in stimulating and sustaining the interest of the learners using visual presentations and simulations; and
5. empower the learners to understand astronomical ideas and events, and make them realize the impact of astronomy and other scientific fields in their daily life, and in achieving a more peaceful society.

Participation of public and private schools shall be subject to the no-disruption-of-classes policy stipulated in DepEd Order No. 9, s. 2005 entitled *Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith* and the policy on off-campus activities stated in DepEd Order No. 66, s. 2017 entitled *Implementing Guidelines on the Conduct of Off-campus Activities*. This is also subject to the no-collection policy as stated in Section 3 of Republic Act No. 5546 also known as *An Act Prohibiting the Sale of Tickets and/or the Collection of Contributions for Whatever Project or Purpose from Students and Teachers of Public and Private Schools, Colleges and Universities (Ganzon Law)*.

For more information, contact:

Norman L. Macario  
Marketing/Event Organizer  
Andromeda Mobile Planetarium  
Block 1, Lot 26, Ciudad Grande, Phase 2, Baguio City  
Mobile Phone No.: 0921-201-1271  
Email Address: [nlmac2000@yahoo.com](mailto:nlmac2000@yahoo.com)  
Facebook Page: <https://www.facebook.com/andromedaplanetarium>



# ANDROMEDA ASTRONOMY SOCIETY PLANETARIUM

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



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## V. SUSTAINABILITY PRINCIPLES:

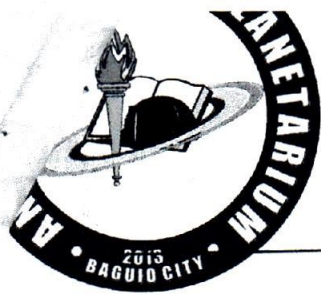
<i>Sustainability Principle</i>	<i>EXPLANATION</i>
<b>Biases Minimization</b>	Different points of view are presented to address the issues.
<b>Respects Complexity</b>	Questions are entertained regardless of complexity. A systems-thinking approach is encouraged.
<b>Personal Affinity with Earth</b>	Contribution 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.
<b>Industrially Focused</b>	Astronomy helped the advancement of imaging and communication. Radio astronomy has provided a wealth of useful tools, devices and data processing method.
<b>Past, Present &amp; Future</b>	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>
<b>Direct Instruction</b>	We teach the students facts that can help them in receiving higher marks on their exams related to our theme.
<b>Co-operative Learning</b>	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.
<b>Assessment or Student Learning Evaluation</b>	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.
<b>Experiential Learning</b>	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>
<b>Lecture and Discussion</b>	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.
<b>Film Showing</b>	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.
<b>Simulation</b>	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.



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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.

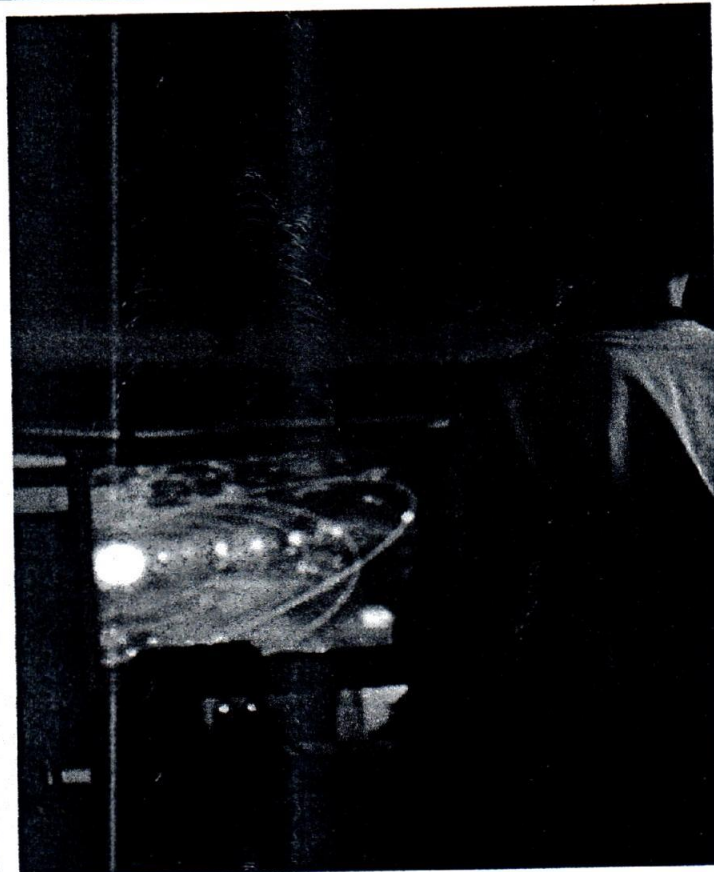
## XII. PARTICIPANTS:

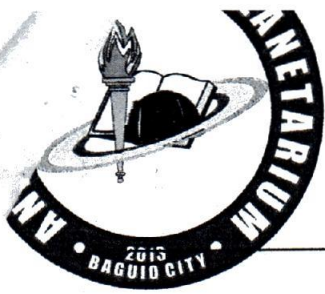
<i><b>PARTICIPANTS</b></i>	<i><b>EXPLANATION</b></i>
<b>Students (Elementary &amp; High School)</b>	To implement fun, interactive and educational activity to inculcate to the students the beauty of the universe. Also, to empower the students to grasp astronomical ideas on how it can affect our daily lives.
<b>Teachers</b>	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.
<b>Community</b>	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 August 2018 to March 2019.

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

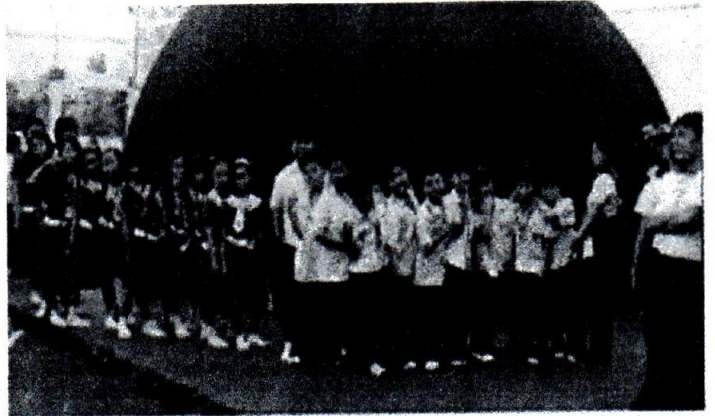
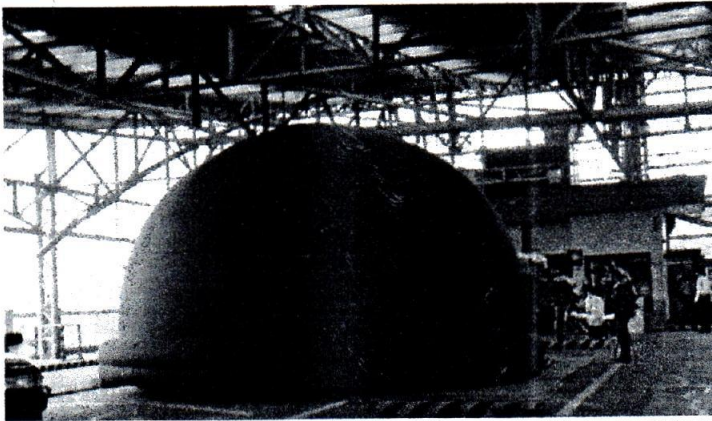




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## Activity 2 – Projected Simulation of the Solar System/ Constellations ( 30 minutes )



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

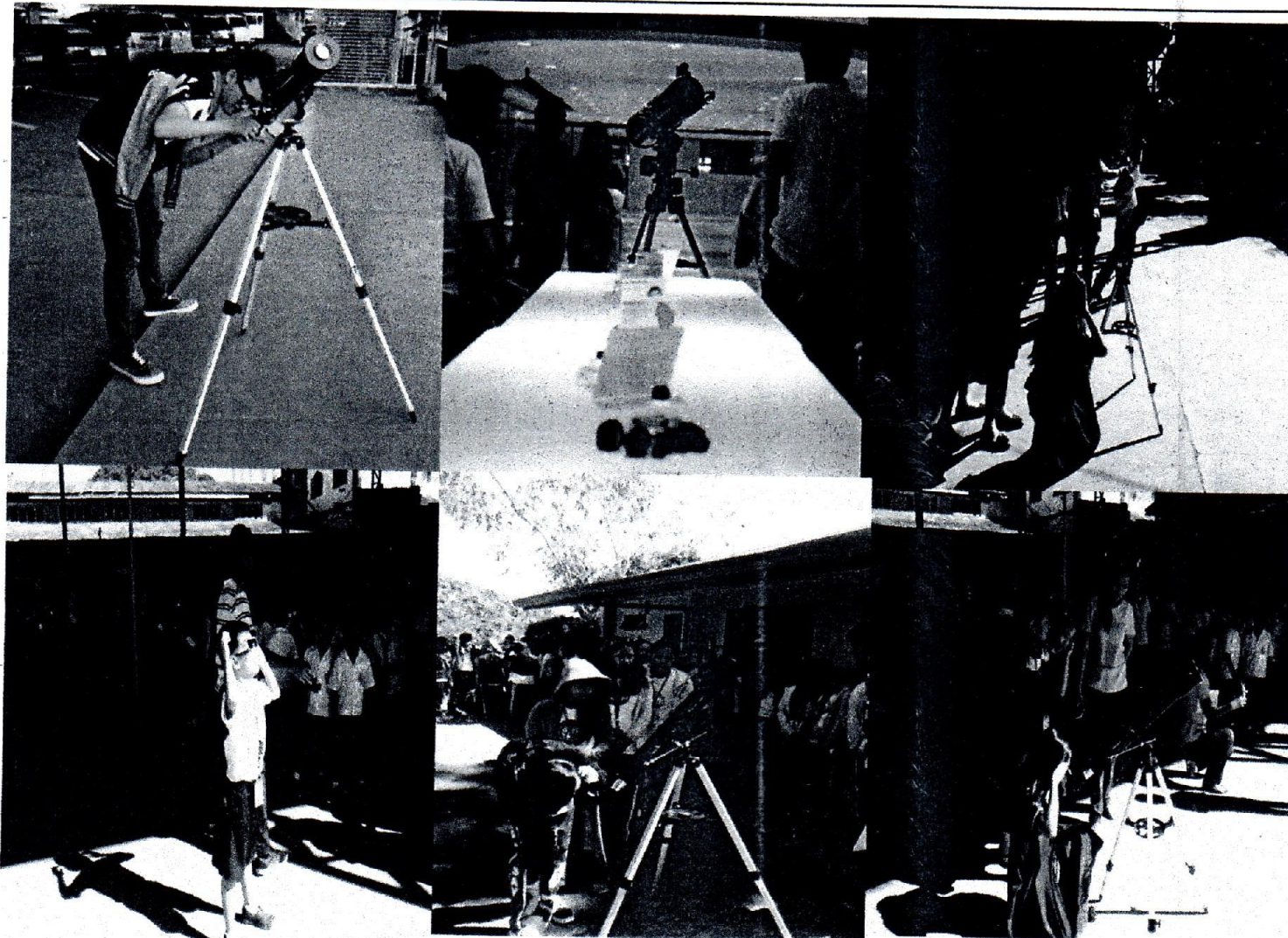




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## Activity 4 – (Solar Gazing) Individual hands-on use of the Telescope (30 minutes)



#### XIV. ACTIVITY BUDGETARY REQUIREMENT:

- Minimal Fee of ONE HUNDRED FIFTY PESOS ( Php 150.00 ) 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