

Republic of the Philippines  
**Department of Education**  
Region VII, Central Visayas  
**DIVISION OF CEBU PROVINCE**  
Sudlon, Lahug, Cebu City



December 12, 2016

Division Memorandum  
No. 823, s.2016

**7<sup>th</sup> SCIENCE FESTIVAL**

To: Assistant Superintendents  
Education Supervisors/ Coordinators  
District Supervisors/OICs  
Elementary and Secondary School Heads

1. Attached is Unnumbered Regional Memorandum dated November 28, 2016, entitled, " 7<sup>th</sup> Science Film Festival ."
2. Immediate dissemination of this Memorandum is desired .

  
**RHEA MAR A. ANGTUD, ED.D., CESO VI**  
Schools Division Superintendent

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REPUBLIKA NG PILIPINAS  
REPUBLIC OF THE PHILIPPINES  
KAGAWARAN NG EDUKASYON  
DEPARTMENT OF EDUCATION  
**REHIYON VII, GITNANG VISAYAS**  
REGION VII, CENTRAL VISAYAS  
Sudlon, Lahug, Cebu City



**MEMORANDUM**

To : **SCHOOLS DIVISION SUPERINTENDENTS**  
Division of Bohol, Cebu City, Cebu Province and Mandaue City

Subject : **7<sup>TH</sup> SCIENCE FILM FESTIVAL**

Date : **November 28, 2016**

The Department of Education in partnership with Goethe Institut-Philippinen will be conducting the 7<sup>th</sup> Science Film festival with the theme *Materials Science* from November 8 to December 16, 2016. The festival aims to promote science literacy and enhance awareness of contemporary scientific, technological and environmental issues through the medium of film and television content.

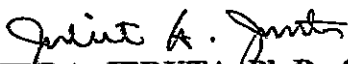
Participants in the aforementioned film festival in Region VII are the following:

School	Schools' Division
Lahug Elementary School	Cebu City
Ubay Central School	Bohol
Badian National High School	Cebu Province
San Remegio National High School	Cebu Province
Mandaue City General Comprehensive High School	Mandaue City

Copies of the films were already forwarded to the respective SDOs concerned, through their Science Education Program Supervisors.

For the information and guidance of all concerned, attached is a copy of DepEd Memorandum No. 181, s. 2016 entitled "7<sup>th</sup> Science Film Festival".

For your guidance and compliance.

  
**JULIET A. JERUTA, Ph.D., CESO V**  
Director III  
OIC, Office of the Regional Director

JAJ/FYA/EBEJ/shs  
CLMD'16

Office of the Director (ORDir), Tel. Nos.: (032) 231-1433; 231-1309; 414-7399; 414-7325; Office of the Assistant Director, Tel. No.: (032) 255-4542  
Field Technical Assistance Division (FTAD), Tel. Nos.: (032) 414-7324 Curriculum Learning Management Division (CLMD), Tel. Nos.: (032) 414-7323  
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Education Support Services Division (ESSD), Tel. No.: (032) 254-7062 Planning, Policy and Research Division (PPRD), Tel. Nos.: (032) 233-9030;  
414-7065 Administrative Division, Tel. Nos.: (032) 414-7326; 414-4367; 414-7366; 414-7322; 414-4367  
Finance Division, Tel. Nos.: (032) 256-2375; 253-8061; 414-7321

*"EFA 2015: Karapatan ng Lahat, Pananagutan ng Lahat"*



Republic of the Philippines  
**Department of Education**

DepEd MEMORANDUM  
No. **181**, s. 2016

28 OCT 2016

**7<sup>TH</sup> SCIENCE FILM FESTIVAL**

To: Regional Directors  
Schools Division Superintendents  
Public and Private Elementary and Secondary Schools Heads  
All Others Concerned

1. In support of the Memorandum of Agreement (MOA) between Goethe Institut-Philippinen and the Department of Education (DepEd), the **7<sup>th</sup> Science Film Festival** with the theme *Materials Science* will be conducted from November 8 to December 16, 2016.
2. The Festival aims to promote to the participants science literacy and enhance awareness of contemporary scientific, technological and environmental issues through the medium of film and television content.
3. The mechanics of the Festival screening are contained in Enclosure No. 1. The synopses of the films are provided in Enclosure No. 2.
4. The learners from both public and private secondary schools, particularly those from the Regional Science High Schools (RSHSs), Science, Technology and Engineering (STE)—implementing schools and Special Science Elementary Schools (SSES), are invited to watch the films.
5. The Regional Science Education Program Supervisor shall coordinate the conduct of the **7<sup>th</sup> Science Film Festival** and shall retrieve the Visitor Count per school. DepEd Regional Office (RO) shall submit a softcopy in Excel format of the Visitor Count Summary Form (VCSF), through email at [joseph.gutierrez@deped.gov.ph](mailto:joseph.gutierrez@deped.gov.ph) on or before **December 17, 2016**. The DepEd RO shall also collect the hard copy of the VCSF, including all the films, and submit the same to **Director Jocelyn Andaya**, Bureau of Curriculum Development, 3<sup>rd</sup> Floor Bonifacio Building, DepEd Central Office, DepEd Complex, Meralco Avenue, Pasig City on or before **January 1, 2017**. The list of participating schools is found in Enclosure No. 3.
6. The opening of the Festival will be on **November 8, 2016** at the Imax Theater, SM Megamall, EDSA corner J. Vargas Avenue, Mandaluyong City with the screening of *A Beautiful Planet*. Participants to the opening of the Festival are selected schools in the Divisions of Mandaluyong and Pasig City listed in Enclosure No. 4.
7. Participation of 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*. The activity is also subject to *no-collection policy* as stated in Section 3 of Republic Act No. 5546, *An Act Prohibiting the Sale of Tickets and/or the Collection of Contributions for Whatever Projects or Purpose from Students and Teachers of Public and Private Schools, Colleges and Universities*.

8. Expenses relative to the transportation of students shall be charged to the Maintenance and Other Operating Expenses (MOOE) of the school, subject to the usual accounting and auditing rules and regulations.

9. Operational costs, including communications, shall be charged to the 2016 Bureau of Curriculum Development Funds. Other expenses relative to the conduct of the Festival in participating schools shall be charged to the 2016 Program Support Funds, pursuant to DepEd Order No. 13, s. 2016 entitled *Implementing Guidelines on the Direct Release and Use of Maintenance and Other Operating Expenses (MOOE) Allocations of Schools, Including Other Funds Managed by Schools*, subject to the usual accounting and auditing rules and regulations.

10. For more information, all concerned may contact **Ms. Grace T. Panganiban** of the Goethe Institut-Philippinen at telephone nos. (02) 840-5723 to 24.

11. Immediate dissemination of this Memorandum is desired.

  
**LEONOR MAGTOLIS BRIONES**  
Secretary

Encls.:

As stated

References:

DepEd Order (No. 13, s. 2016)

DepEd Memorandum No. 115, s. 2015

To be indicated in the Perpetual Index  
under the following subjects:

CONFERENCES  
FILM SHOWING  
LEARNERS  
SCIENCE EDUCATION  
TEACHERS

SMMA, DM 7th Science Film Festival  
0688-October 19, 2016

**MECHANICS FOR THE SCIENCE FILM FESTIVAL SCREENING**

1. Preparation:

- a. Room equipped with screen and video player (DVD player or PC/laptop)
- b. Science Films (in DVD format)
- c. Teacher or Guide to facilitate the viewing and activities (It is highly recommended that teachers/guides watch the films in advance and prepare guide questions that may help stimulate students' interest and understanding of the film.)

The copies of the films will be forwarded to the Regional Offices (RO). The RO will then forward the films to the Division Offices (DO). The DO will forward the films to specific schools in the list.

2. Reception and Work Instruction:

The teacher or guide introduces the Science Film Festival and briefly explains the film/s to be screened. The synopses can be used for this purpose.

3. Screening of the Film

Let the viewers watch the film completely and without interruption.

4. Processing (Pre- or Post-Screening)

This is to reinforce the information from the film and to strengthen students' understanding of concepts espoused by the film. The guide questions prepared before the screening will help with the processing of students' understanding.

5. Teacher/Guide shall prepare the Visitor Count Form and submit the same to the Regional Science Education Program Supervisor. The form is in Enclosure No. 5.

6. The DepEd Regional Office shall collate the Visitor Count Form and prepare the summary following the format as shown in Enclosure No. 6.



## LOCAL SHORTLIST AND SYNOPSIS

### AUSTRIA GERMANY & SWITZERLAND

**Title:** Amur – Asia's Amazon  
**Original Title:** Amur – Asiens Amazonas  
**Format:** Standalone Documentary  
**Category:** Ecology & Environment  
**Directors:** Franz Hafner (Ep.01 + Ep.03) & Klaus Feichtenberger (Ep.02)  
**Produced by:** A co-production of Terra Mater Factual Studios, Interspot Film and NDR Naturfilm Doclights in cooperation with ARTE France  
**Running Time:** 50 Minutes  
**Country:** Austria  
**Year:** 2015  
**Age Guideline:** Young Adults (17+)

Although the Amur comprises one of the longest river systems in the world, it is not very well known. This water landscape is made up of thousands of rivers, swamps and lakes which cover an area four times the size of Germany, stretching over parts of Mongolia, Russia and China. The river delta, at the Tatar Strait between the Seas of Japan and Okhotsk, is the starting point of an unusual voyage of discovery, which travels 5000 kilometres upstream from the Pacific to the Mongolian Steppes.

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**Title:** Checker Tobi – The Gold-Check  
**Original Title:** Checker Tobi – Der Gold-Check  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Directors:** Martin Tischner & Johannes Honsell  
**Produced by:** megaherz gmbh film und fernsehen  
**Running Time:** 25 Minutes  
**Country:** Germany  
**Year:** 2014  
**Age Guideline:** Primary School (9-11)

Tobi is eager to know why people are so fascinated with gold and wants to make himself a golden crown. His search for gold brings him to the Rammelsberg mine in Goslar, 200 metres underground. For centuries miners searched here for all sorts of metals. Tobi seeks the expert help of geologist Veit, who helps him build gold traps in a river. For years, Veit followed the Gold Rush to countries such as Australia, Russia and North America. Nonetheless, not all that glitters is gold!

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**Title:** Checker Tobi – The Paper-Check  
**Original Title:** Checker Tobi – Der Papier-Check  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Directors:** Martin Tischner & Johannes Honsell  
**Produced by:** megaherz gmbh film und fernsehen  
**Running Time:** 25 Minutes  
**Country:** Germany  
**Year:** 2015  
**Age Guideline:** Primary School (9-11)

Tobi wants to go to sea – in a paper boat. In order to do so, he consults paper sculptor Frank who works as a lifeguard in Uffing. First of all, the construction material needs to be studied. In the paper factory in Gmund, Tobi learns how paper is produced. Having created some fine quality paper, he then sets out to investigate the ancient Egyptians – the inventors of papyrus. During a visit to a recycling plant, he learns how machines are used to reprocess waste paper. At present, 20 million tons of paper are recycled annually in Germany.

Research in Düsseldorf, is searching for scientific answers to these questions. As part of an international team, he is doing research work on a polymer coating designed to release rust-inhibiting substances capable of independently "healing" scratches in metal.

**Title:** K for Knowledge – Sugar in Numbers  
**Original Title:** W wie Wissen – Zucker in Zahlen  
**Format:** Science Magazine  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Fabian Wolf  
**Produced by:** Bilderfest GmbH on behalf of WDR  
**Running Time:** 6 Minutes  
**Country:** Germany  
**Year:** 2015  
**Age Guideline:** Secondary School (12-16)

According to the American Ministry of Agriculture, every year 175 million tons of sugar are produced worldwide. If this quantity of sugar were to be formed into cubes, it could be used to reconstruct the 830-metre-tall facade of the Burj Khalifa, the highest building in the world - not just once, but 255 times!! On average, each one of us consumes almost 24 teaspoons of sugar a day. Much more than is good for us, according to the WHO. Is there a way of reducing our sugar intake?

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**Title:** Magnetism to the Power of Four  
**Original Title:** Magnetismus hoch 4  
**Format:** Animation or Short Film  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Directors:** Daniel Laumann & Matthias Ries  
**Produced by:** Institut für Didaktik der Physik  
Westfälische Wilhelms-Universität Münster  
**Running Time:** 6 Minutes  
**Country:** Germany  
**Year:** 2016  
**Age Guideline:** Young Adults (17+)

The teaser „Magnetism to the power of 4“ is a thought experiment which reveals to us the magnetic phenomena of our world. Things which, although ever-present, almost always remain quite hidden. What would happen if a crazy scientist succeeded in amplifying the magnetic field in the centre of our Earth? One surprising result reveals that, in an extremely strong magnetic field, water, wood and even humans would reveal their magnetic properties and begin to float.

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**Title:** The Origami-Code – Scientists Uncover the Power of Folding  
**Original Title:** Der Origami-Code – Forscher entdecken das Falten  
**Format:** Standalone Documentary  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Francois-Xavier Vives  
**Produced by:** fact+film, Leonardo Film, La Compagnie des Taxi Brousse, ZDF/3Sat, France Télévisions, nordmedia Bremen and Niedersachsen, MEDIA, CNC & Procirop  
**Running Time:** 43 Minutes  
**Country:** France  
**Year:** 2015  
**Age Guideline:** Secondary School (12-16)

Much of what develops in nature has folds: flower buds, wings, the brain, genes... In the last 20 years, science has discovered the principles of Origami. The art of folding has entered into innovative areas of research and could now lead the way to the final stage in bionics. Researchers in the fields of robotics, medicine, biology and nanotechnology hope to be able to solve highly complex mathematical problems through the study of this natural phenomenon or to derive other practical technical benefits from it.

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## EUROPE

**Title:** Baobabs - Between Land and Sea  
**Original Title:** Baobabs entre Terre et Mer  
**Format:** Standalone Documentary  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Cyrille Comu  
**Produced by:** Cyrille Comu (Lokobe Production)  
**Running Time:** 55 Minutes  
**Country:** France / Madagascar  
**Year:** 2015  
**Age Guideline:** Secondary School (12 - 16)

**Title:** Checker Tobi – The Rubber-Check  
**Original Title:** Checker Tobi – Der Gummi-Check  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Directors:** Martin Tischner & Johannes Honsell  
**Produced by:** megaherz gmbh film und fernsehen  
**Running Time:** 25 Minutes  
**Country:** Germany  
**Year:** 2014  
**Age Guideline:** Primary School (9-11)

Rubber is a very versatile material. It can be used to make a variety of products ranging from boats, seals, mattresses and erasers to hair bands. It is soft and flexible but strong.

On a visit to a racing circuit, Tobi finds out why tyres are made of rubber and the tough conditions they need to endure. At the Botanical Gardens in Munich, he learns where the raw material rubber comes from and how it is processed. Finally Tobi witnesses a stretch test in the form of a Bungee jump, in which the elastic cord has to withstand the impact of a jump from a height of 75 metres.

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**Title:** Checker Tobi – The Plastic Check  
**Original Title:** Checker Tobi – Der Plastik-Check  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Directors:** Martin Tischner & Johannes Honsell  
**Produced by:** megaherz gmbh film und fernsehen  
**Running Time:** 25 Minutes  
**Country:** Germany  
**Year:** 2014  
**Age Guideline:** Primary School (9-11)

Plastic and synthetic materials can be found everywhere: in packaging, electronics, cars, shoes and toothbrushes. It is a very practical material but it takes centuries to decompose and the enormous consumption of plastic has become a problem for plants, animals and humans alike. Tobi visits an oil drilling station where the the raw material for plastic is produced. He takes his oil sample from the station to the laboratory, where he makes it into plastic. Later, Tobi investigates how much plastic is to be found in the average household. The results are frightening.

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**Title:** Checker Tobi – The Sand-Check  
**Original Title:** Checker Tobi – Der Sand-Check  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Directors:** Johannes Honsell  
**Produced by:** megaherz film und fernsehen on behalf of Bayerischer Rundfunk  
**Running Time:** 24 Minutes  
**Country:** Germany  
**Year:** 2014  
**Age Guideline:** Primary School (9-11)

Sand is everywhere, not only on the beach! It forms part of our houses and motorways. It is important for the production of glass and appliances such as mobile phones and computers. Every year 15 billion tons of sand are used in the production industry. This makes Tobi eager to find out more about this raw material. A geologist explains to him what sand is, how it arrives on the beaches and why there is red, white and black sand. Tobi seeks help to build a 110-metre- high sandcastle and in order to test its strength, he wants to slide down it on a board.

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**Title:** Corrosion – Rust Belongs on the Scrap Heap  
**Original Title:** Korrosion – Rost gehört zum alten Eisen  
**Format:** Science Magazine  
**Category:** Natural Science, Life Science & Technology  
**Director:** Jo Siegler  
**Produced by:** Max Planck Society & Massih Media  
**Running Time:** 9 Minutes  
**Country:** Germany  
**Year:** 2014  
**Age Guideline:** Young Adults (17+)

Every year, corrosion eats up approximately 3 per cent of all economic output. In Germany alone that amounts to almost 70 billion euro. But what is rust and how can we combat it more effectively? Martin Stratmann, director at the Max-Planck-Institute for Iron



Their sheer size and distinctive form make Baobab trees one of the most amazing tree species on Earth but deforestation poses an existential threat to these giants. To find out more about them, Cyrille Cornu and Wilfried Ramahafaly travel to the heart of the forest and explore 400 kilometres of south-west Madagascar's wild and isolated coastline. This film documents the discoveries, encounters as well as the scientific results of their research. Some of the landscapes have seldom before been captured on film or photograph.

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**Title:** Computer Says Show  
**Format:** Documentary Series  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Dr. Catherine Gale  
**Produced by:** Archie Baron  
**Running Time:** 45 Minutes  
**Country:** United Kingdom  
**Year:** 2016  
**Age Guideline:** Secondary School (12-16)

Scientists get together with musical composers for the very first experiment of its kind anywhere in the world. Their aim? To discover the recipe for success in the musical genre. Can the perfect musical be composed by a computer? The second episode illustrates how the idea is put into practice. Team and actors rehearse their new musical "Beyond the Fence". The gala performance reveals whether or not the computer-generated musical is able to meet the expectations of London's West End audience.

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**Title:** Einstein 100  
**Format:** Animation or Short Film  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Directors:** Jamie Lochhead, Eoin Duffy & Anais Rassat  
**Produced by:** Windfall Films for the Science and Technology Facilities Council  
**Running Time:** 3 Minutes  
**Country:** United Kingdom  
**Year:** 2015  
**Age Guideline:** Secondary School (12-16)

With the publication of his Theory of General Relativity in 1915, Albert Einstein revolutionized our understanding of gravity by explaining it as a curvature in the space-time continuum. To this day, physicists all over the world are still inspired by his theory and, although it is highly complex, the basic idea can actually be explained in simple terms. The short film "Einstein 100" does this in a clear, entertaining way.

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**Title:** End of Memory  
**Original Title:** Nos Ordinateurs Ont-Ils la Mémoire Courte?  
**Format:** Standalone Documentary  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Vincent Amonoux  
**Produced by:** ZED & ARTE France  
**Running Time:** 52 Minutes  
**Country:** France  
**Year:** 2014  
**Age Guideline:** Young Adults (17+)

Every day 2,5 trillion bytes of data are exchanged. This rapidly growing quantity of digital information is known as „Big Data“ and it is presenting mankind with new challenges. How can this quantity of data be classified and stored? Scientists are trying to develop new platforms to make up for the short lifespan of our current storage formats and secure data for future generations. "The End of Memory" asks whether digital societies are capable of developing a lasting storage system.

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**Title:** Epigenetics – Game of Genes  
**Original Title:** Epigénétique – Du Jeu dans les Gènes  
**Format:** Documentary Series  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Noak Carrau  
**Produced by:** Yoann Dhenin (l'Heure Bleue Productions)  
**Running Time:** 6 x 6 Minutes  
**Country:** France  
**Year:** 2015  
**Age Guideline:** Young Adults (17+)

Six different stories tell us why genes alone cannot predict our fate. With the help of epigenetics, scientists explain how DNA profiles change in the course of a lifetime. Environmental factors, diet and stress all influence human cell factories decisively. Heart and brain rejuvenation experiments, organ reconstruction and delaying of the ageing process no longer belong to the world of science fiction - they are already being tested in modern molecular biology.

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**Title:** Full Proof – Domes  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Director:** Uif Putters  
**Produced by:** NTR  
**Running Time:** 12 Minutes  
**Country:** The Netherlands  
**Year:** 2015  
**Age Guidelines:** Primary School (9-11)

Full Proof" is a series of episodes presented by children from different countries. In this particular episode, eleven-year-old Aung, a postcard seller in a Myanmar temple town, asks himself how the temple domes were built and why they don't fall down. He learns how to make a bridge from noodles and how to walk on eggshells. He also finds out what triangles have to do with architecture. Finally Aung takes on the task of building a dome big enough to crown his own souvenir shop.

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**Title:** Gone with the Time  
**Original Title:** Antant en Emporte le Temps  
**Format:** Animation or Short Film  
**Category:** Family Edutainment  
**Director:** Mathieu Rolin  
**Produced by:** Le vaisseau, le PAIR, amopix, CNC & Bourse Estim  
**Running Time:** 15 Minutes  
**Country:** France  
**Year:** 2015  
**Age Guidelines:** Secondary School (12-16)

„Gone with the Time" tells the amusing story of two archaeologists who are sent to an excavation site to do some research. They are accompanied by Agnes und Gilles, who are in charge of the area and also by a rather mischievous narrator, who tells the story in an amusing but informative way. The work of the archaeologists pays off when they discover the remains of a 2,500- year-old Gallic village.

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**Title:** Star Stuff  
**Format:** Animation or Short Film  
**Category:** XXXXXXXXXX  
**Director:** Ratimir Rakuljic  
**Produced by:** Monika Drahotuski, Ratimir Rakuljic & Andrej Smoljan  
**Running Time:** 10 Minutes  
**Country:** Croatia  
**Year:** 2015  
**Age Guidelines:** Secondary School (12-16)

What are stars? Nine-year-old Carl sets out on a journey to find an answer to this apparently simple question. But every answer brings new questions and the boy soon becomes a great scientist. "Star Stuff" was inspired by the life and work of Carl Sagan, one of the most famous scientists and science teachers of the 20th century.

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## ASIA

**Title:** Hawkeye: Filipino Ingenuity  
**Original Title:** Matanglawin: Galing ng Pinoy  
**Format:** Edutainment  
**Category:** Natural Science, Life Science & Technology  
**Director:** Maritoni Esperida (Executive Producer)  
**Produced by:** ABS-CBN  
**Running Time:** 19 Minutes  
**Country:** The Philippines  
**Year:** 2016  
**Age Guidelines:** Secondary School (12 - 16)

The inventions of the children of the prize-winning Philippine-Robotics-Team have the potential to save both lives and the Earth. This episode of the programme on science and environment is all about new ideas of brilliant minds of all age groups. Viewers can marvel at robots which can make new paper and pencils from recycled paper or transform food left-overs into electricity.

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**Title:** House of Little Scientists: Cola  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Director:** Pichsinee Sirichotchumnam  
**Produced by:** Maha Chakri Sirindhorn Foundation, National Science Museum  
Thailand and Thai PBS  
**Running Time:** 10 Minutes  
**Country:** Thailand  
**Year:** 2015  
**Age Guideline:** Early Learners (5 - 8)

The House of Little Scientists aims to engage pre-school children with science in a playful way. This is done via observation, examination and easy-to-understand experiments. For example, the contents of cola are investigated by letting the young researchers carry out small experiments where they discover the role carbonic acid plays in the sweet beverage.

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**Title:** House of Little Scientists: Shapes  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Director:** Pichsinee Sirichotchumnam  
**Produced by:** Maha Chakri Sirindhorn Foundation, National Science Museum  
Thailand and Thai PBS  
**Running Time:** 10 Minutes  
**Country:** Thailand  
**Year:** 2015  
**Age Guideline:** Early Learners (5 - 8)

On closer inspection, we realize that all objects surrounding us have shapes - and that these shapes, in turn, can be found within other objects too. Whether triangle or rectangle, everything in this episode revolves around the subject of shapes. In "The House of the Little Scientists", which was especially designed for young researchers, children of pre-school age learn about shapes in a playful way.

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**Title:** Leaps in Evolution – Episode 1: The Origin of Eyes  
**Format:** Standalone Documentary  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Kazuki Ueda  
**Produced by:** NHK (Japan Broadcasting Corporation)  
**Running Time:** 59 Minutes  
**Country:** Japan  
**Year:** 2015  
**Age Guideline:** Secondary School (12 - 16)

The study of fossils has revealed that eyes developed in living organisms approximately 500 million years ago; this is a milestone in evolutionary biology. Modern DNA research offers a possible answer as to why eyes came into being at all. Light sensitivity genes were transferred from plant to animal life. The genes developed in plants over millions of years, permitting them to perceive light efficiently and carry out photosynthesis. When animals received these genes, they began to discover the world of light.

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**Title:** Medicine – East and West  
**Format:** Documentary Series  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Si Joon Kim  
**Produced by:** Deok Dam Chu  
**Running Time:** 52 Minutes  
**Country:** Korea  
**Year:** 2015  
**Age Guideline:** Young Adults (17+)

For thousands of years, medicine has protected man from illnesses and injuries. The search for healing remedies is a tradition in all parts of the world. The Korean EBS Docu-prime "Medicine - East and West" examines the history of the development and the conflicts between eastern and western medicine. It does so from a humanistic perspective and gives the viewers a unique insight into both the past and the future of eastern and western medicine.

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## REST OF THE WORLD

**Title:** Annedroids: Episode 103 - Reduce, Reuse, Robocycle  
**Format:** Edutainment  
**Category:** Family Edutainment  
**Director:** J.J. Johnson  
**Produced by:** Sinking Ship Entertainment  
**Running Time:** 23 Minutes  
**Country:** Canada  
**Year:** 2014  
**Age Guideline:** Secondary School (12 - 16)

The ingenious scientist Anne, her two friends, Nick und Shania and her android inventions Hand, Eyes and Pal have a task at hand. Because Nick would rather meet his friends than mow the lawn, Anne decides to build him a robotic lawnmower. The difficulties she encounters in her garbage tip laboratory are not merely of a technical kind.

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**Title:** Biologic  
**Format:** Standalone Documentary  
**Category:** ~~Biological Science~~  
**Director:** Lining Yao & Helene Steiner  
**Produced by:** Zach Roth, Wen Wang, Guanyun Wang, Jifei Qu, Chin-Yi Cheng, Oksana Anilionyte Hiroshi Ishii  
**Running Time:** 5 Minutes  
**Country:** United States of America  
**Year:** 2015  
**Age Guideline:** Secondary School (12 - 16)

Natto bacteria have a very special property: they react to changes in humidity. A research team from the Tangible Media Group and the MIT Media Lab reveal how the properties of these bacteria can be used to develop new bio-materials. The team used a 3D printer to weave the bacteria cells into material for sports clothing. The fabric reacts to sweat and permits a fast cooling process. This new material was first used in the production of ballet wear in the autumn of 2015.

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**Title:** Chasing Pluto  
**Format:** Standalone Documentary  
**Category:** ~~Natural Science, Life Science & Technology~~  
**Director:** Terri Randall  
**Produced by:** Paula Apsell  
**Running Time:** 60 Minutes  
**Country:** United States of America  
**Year:** 2015  
**Age Guideline:** Secondary School (12 - 16)

The mission of spacecraft "New Horizons" is to fly close to Pluto and take the first-ever detailed photograph of the dwarf planet. Nine years and three million miles further on, the first image of this peculiar, icy world is made. Only the spacecraft can survive the last, tricky part of the journey, which involves passing through a dangerous system of tunnels. The aim of the mission is to reveal Pluto's mysterious surface in unprecedented detail and understand the secrets of worlds which exist outside our own solar system.

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**Title:** Fixer Lab  
**Format:** Animation or Short Film  
**Category:** Family Edutainment  
**Director:** Jennifer Treuting & Kristen McGregor  
**Produced by:** Jennifer Treuting & Kristen McGregor  
**Running Time:** 9 Minutes  
**Country:** United States of America  
**Year:** 2015  
**Age Guideline:** Primary School (9 - 11)

FixerLab" is about three enthusiastic little engineers who take on the challenge of repairing a fan. First of all they need to find out how this top fan became a flop fan. Then they have to repair the broken fan with proper tools and strategies before returning it to its rather uptight owner.

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**Title:** The Great Math Mystery  
**Format:** Standalone Documentary  
**Category:** Culture & History  
**Director:** Dan McCabe & Richard Reisz  
**Produced by:** Paula Apsell  
**Running Time:** 60 Minutes  
**Country:** United States of America  
**Year:** 2015  
**Age Guideline:** Secondary School (12 - 16)

This mathematical voyage of discovery illustrates the power of maths and questions whether it is the language of the universe or purely a human invention. Mathematics is omnipresent, as can be seen, for example, in the spiral of seeds in the centre of a sunflower. It forms the basis of numerous scientific milestones and was essential to everything, from the first wireless radio transmissions, to the prediction and discovery of the Higgs boson and the successful landing of rovers on Mars.

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**Title:** Uranium - Twisting the Dragon's Tail: Episode 1  
**Format:** Documentary Series  
**Category:** Natural Science, Life Science & Technology  
**Director:** Wain Fimeri  
**Produced by:** Sonya Pemberton, Genepool Productions, SBS Australia, PBS, ZDF & ARTE  
**Running Time:** 3 x 50 Minutes  
**Country:** Australia  
**Year:** 2015  
**Age Guideline:** Secondary School (12-16)

This documentary series explores the fascinating history of uranium from its birth, forged in an exploding star, to its application in nuclear weapons, power stations and medicine. The film takes us on an epic journey through 9 countries and over a century of stories, in search of the material which forms the basis of our modern world. The adventure is part science, part history and is presented by physicist and Youtube celebrity, Dr. Derek Muller.

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**Title:** Mosquitoes: A Story Of Attraction  
**Format:** Animation or Short Film  
**Category:** XXXXXXXXXX  
**Director:** Keenan Smith  
**Produced by:** Ankitha Kini  
**Running Time:** 2 Minutes  
**Country:** United States of America  
**Year:** 2015  
**Age Guideline:** Primary School (9 - 11)

The humming sound of mosquitoes during the night is enough to drive anyone crazy. Whilst some people wake in the morning covered in bites, others seem to remain unscathed. Why do some people attract these blood-suckers whilst others appear to be immune to them? "Mosquitoes: A Story Of Attraction" explains the science behind the mosquito attraction with concrete facts and a good portion of humour.

(Enclosure No. 3 to DepEd Memorandum No. 181, s. 2016)

List of Schools Implementing the Special Science Program (RSHS/STE/LSHS/SSES) Which are Participating in the 7th Film Festival

Region	No. of Schools	Name of School	Division
NCR	9 Elementary Schools and 33 Secondary Schools	Kalookan City HS	Caloocan City
		Caloocan City Science HS	Caloocan City
		Caloocan City Science and Technology HS	Caloocan City
		Malabon NHS	Malabon City
		Ramon Magsaysay HS (Cubao)	Quezon City
		Quezon City Science HS (RSHS for NCR)	Quezon City
		Proj. 6 Elementary School	Quezon City
		Araullo HS	Manila
		Cayetano Arellano HS	Manila
		Manuel Roxas HS	Manila
		Ramon Magsaysay HS (Espana)	Manila
		V. Mapa HS	Manila
		Manila Science HS	Manila
		Raja Soliman Science and Technology HS	Manila
		Fernando Ma. Guerrero Elementary School	Manila
		Rizal HS	Pasig City
		Pasig City Science HS	Pasig City
		Muntinlupa NHS	Muntinlupa City
		Muntinlupa Science HS	Muntinlupa City
		Putatan Elementary School	Muntinlupa City
		Paranaque NHS	Paranaque City
		Paranaque Science HS	Paranaque City
		San Antonio Elementary School	Paranaque
		Pasay City West HS	Pasay City
		Pasay City Science HS	Pasay City
		Las Pinas NHS	Las Pinas
		Las Pinas City National Science HS	Las Pinas
		Pitogo NHS	Makati City
		Makati Science HS	Makati City
		Francisco Benitez Elementary School	Makati City
		Neptali Gonzales HS	Mandaluyong City
		City of Mandaluyong Science HS	Mandaluyong City
		Dona Pilar Gonzaga Elementary School	Mandaluyong City
Valenzuela NHS	Valenzuela		
Valenzuela City Science HS	Valenzuela		
Sta. Elena HS	Marikina City		
Marikina Science HS	Marikina City		
Marikina Elementary School	Marikina City		
Sen. Renato "Companero" Cayetano Memorial Science and Technology HS	Taguig		
Taguig Science HS	Taguig		
Taguig Elementary School	Taguig		
Tanada Elementary School	Valenzuela		
I	2 Elementary Schools and 3 Secondary Schools	Malued Central School	Dagupan City
		Cantoria Elementary School	La Union
		Ilocos Norte National HS	Laoag City
		Urdaneta National High School	Urdaneta City
		Dona Francisca Lacsamana Ortega MNHS (RSHS for Region I)	La Union

	3 Secondary Schools	Urdaneta National High School Dona Francisca Lacsamana Ortega MNHS (RSHS for Region I)	Urdaneta City La Union
II	2 Elementary Schools and 3 Secondary Schools	Cabagan Central School Santiago West Central School Abulug School of Fisheries Dupax Del Norte NHS (Lamo NHS) Regional Science High School for Region II	Isabela Santiago City Cagayan Nueva Vizcaya Isabela
III	2 Elementary Schools and 3 Secondary Schools	Cupang Elementary School Mayapyap Elementry School Angeles City High School J.R. Liwag Memorial High School Regional Science High School for Region III	Balanga City Cabanatuan City Angeles City Gapan City Olongapo City
IV-A	2 Elementary Schools and 3 Secondary Schools	Amadeo Elementary School Mauban North Elementary School I Batangas National High School San Jose National High School Regional Science High School for Region IV-A	Cavite Quezon Batangas City Antipolo City Cavite
IV-B	2 Elementary Schools and 3 Secondary Schools	Puerto Galera Elementary School Gabaldon Elementary School Sablayan National High School Looc National High School Bansud National HS (RSHS for Reg. IV-B)	Oriental Mindoro Marinduque Occidental Mindoro Romblon Oriental Mindoro
V	2 Elementary Schools and 3 Secondary Schools	Goa Central School Ligao Central School Camarines Sur National High School Sorsogon National High School Bicol Regional Science HS (RSHS)	Camarines Sur Ligao City Naga City Sorsogon City Ligao City
VI	2 Elementary Schools and 3 Secondary Schools	Sto. Domingo Elementary School Lezo Integrated School Antique National High School Buonavista National High School Aklan Science Development NHS (RSHS)	Iloilo City Aklan Antique Guimaras Aklan
VII	2 Elementary Schools and 3 Secondary Schools	Lahug Elementary School Ubay Central School Badian National High School San Remegio National HS Mandaue City General Comp. High School	Cebu City Bohol Cebu Cebu Mandaue City
VIII	2 Elementary Schools and 3 Secondary Schools	Calbayog Pilot Central School Catbalogan III Central School Dolores National High School Baybay National High School Cabiga National HS (RSHS for Region VIII)	Calbayog City Samar Eastern Samar Leyte Catbalogan City
IX	2 Elementary Schools and 3 Secondary Schools	Margosatubig Regional Pilot ES Putik Central School Dapitan City National High School Buayan National High School Regional Science High School for Region IX	Zamboanga Del Sur Zamboanga City Dapitan City Zamboanga Sibugay Zamboanga City

X	2 Elementary Schools and 3 Secondary Schools	Jasaan Elementary School	Misamis Oriental
		Iligan City East I Elementary School	Iligan City
		Bukidnon National High School	Malaybalay City
		Cagayan de Oro City High School	Cagayan de Oro
		Gusa National HS (RSHS for Region X)	Cagayan De Oro City
XI	2 Elementary Schools and 3 Secondary Schools	Matina Central School	Davao City
		Luna Elementary School	Davao Del Norte
		Daniel R. Aguinaldo National HS	Davao City
		Panabo National High School	Panabo City
		Gov. Leopoldo Lopez Memorial SHS (RSHS for Reg. XI)	Mati City
XII	5 Secondary Schools	Koronadal National Comp. High School	Koronadal City
		General Santos City High School	General Santos
		Esperanza High School	Sultan Kudarat
		Norala National High School	South Cotabato
		Alabel National SHS (RSHS for Region XII)	Sarangani City
CARAGA	2 Elementary Schools and 3 Secondary Schools	Surigao City Special Science ES	Surigao City
		Mainit Central School	Surigao del Norte
		J. Elpa National Comp. High School	Surigao Del Sur
		Agusan Del Sur National High School	Agusan Del Sur
		Caraga Regional Science High School	Surigao City
NIR	2 Elementary Schools and 3 Secondary Schools	Paglaum Village Elementary School	Bacolod City
		Isabela II Central School	Negros Occidental
		Negros Occidental High School	Negros Occidental
		Bacolod City National HS	Bacolod City
		Ramon Teves Pastor MHS (RSHS for NIR)	Dumaguete City
CAR	2 Elementary Schools and 3 Secondary Schools	La Trinidad Central School	Benguet
		Tayum Elementary School	Abra
		Baguio City High School	Baguio City
		Tabuk National High School	Kalinga
		Cordillera Regional Science High School	Benguet
ARMM	3 Secondary Schools	Lamitan National High School	Lamitan City
		Tawi-tawi School of Arts and Trades	Tawi-tawi
		ARMM Regional Science High School- Amir	Maguindanao
		Bera Lidasan National HS	



(Enclosure No. 4 to DepEd Memorandum No. **181**, s. 2016)

List of Schools Participating in the Opening of the 7th Science Film Festival at 10:00 AM on November 8, 2016, IMAX Theater, SM Megamall

<b>Division</b>	<b>Name of School</b>	<b>No. Of Students</b>	<b>No. of Teachers</b>	<b>No. of School Head</b>
Pasig City	Rizal High School	37	2	1
Pasig City	Pasig City Science High School	37	2	1
Mandaluyong	Neptali Gonzales High School	37	2	1
Mandaluyong	City of Mandaluyong Science High School	37	2	1
Mandaluyong	Dona Pilar Gonzaga Elementary School	37	2	1



