



Republic of the Philippines
Department of Education

13 NOV 2018

DepEd MEMORANDUM
No. **179**, s. 2018

2018 SCIENCE FILM FESTIVAL

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

1. In support of the Memorandum of Agreement (MOA) between Goethe Institut-Philippinen and the Department of Education (DepEd), the **2018 Science Film Festival** with the theme **Food Revolution** shall be conducted from November 12 to December 7, 2018.

2. The festival aims to promote science literacy and enhance awareness of contemporary scientific, technological and environmental issues through the medium of film and television.

3. Learners from both public and private secondary schools particularly the Regional Science High Schools (RSHSs), Legislated Science High Schools (LSHSs), Science, Technology and Engineering (STE)-implementing schools and Special Science Elementary Schools (SSESs) are encouraged to watch the films.

4. The Regional Science Education Program Supervisor shall coordinate the conduct of the 2018 Science Film Festival and shall retrieve the visitor count per school. The regional office (RO) shall submit a soft copy in Excel format of the Visitor Summary Form through email at joseph.gutierrez@deped.gov.ph on or before **December 11, 2018**. The RO shall also collect the hard copy of the Visitor Count Summary Form, including all the films and submit the same to **Ms. Jocelyn DR. Andaya**, Director IV, Bureau of Curriculum Development (BCD), 3rd Floor Bonifacio Building, Department of Education Central Office, DepEd Complex, Meralco Avenue, Pasig City on or before **December 21, 2018**.

5. 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**. This activity is also subject to the 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**.

6. Operational costs, including communications, shall be charged to the 2018 BCD Funds. On the other hand, other expenses relative to the conduct of the Festival in participating schools shall be charged to the 2018 Program Support Funds.

7. The following documents are enclosed for reference:

Enclosure No. 1 - Mechanics of the 2018 Science Film Festival Screening;

Enclosure No. 2 - Synopses of the Films;

Enclosure No. 3 - List of Participating Schools;

Enclosure No. 4 - School Visitor Count Form; and

Enclosure No. 5 - Visitor Count Summary Form.

8. For more information, contact **Ms. Grace T. Panganiban**, Goethe Institut-Philippinen at telephone nos. (02) 840-5723 to 24.

9. Immediate dissemination of this Memorandum is desired.


LEONOR MAGTOLIS BRIONES
Secretary

Encls.:

As stated

Reference:

DepEd Memorandum No. 176, s. 2017

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

LEARNERS

SCHOOLS

SCIENCE EDUCATION

TEACHERS

MECHANICS FOR THE SCIENCE FILM FESTIVAL SCREENING

The following shall be observed before, during and after the activity:

1. Preparation:

- a. The venue/room must be equipped with screen and video player (DVD player or PC/laptop).
- b. The science films are in DVD format.
- c. The teacher/guide to facilitate the viewing activities are advised to watch the films in advance and prepare guide questions that may help stimulate students' interest and better understanding of the film.

The copies of the film will be forwarded to the Regional Offices (RO). ROs will forward the films to the Schools Division Offices (SDOs) and SDOs will forward the films to specific schools as indicated in Enclosure No. 3 of this DM.

2. Reception and Work Instructions

- a. The teacher/guide shall provide background information about the Science Film Festival and explain briefly the film to be screened. The synopses can be used for this purpose.

3. Screening of the Film

The students/viewers shall be advised to watch the film completely and without interruption.

4. Processing (Pre- or Post-Screening)

The guide questions prepared before the screening may be used to reinforce the information from the films and strengthen the students' understanding of concepts and theme of the film.

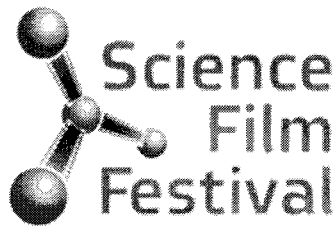
The guide questions below may be used as samples:

- a. Which part of the film did you feel most engage with? Why?
- b. What science lessons can be learned from the film? Elaborate your answer.
- c. Other than the science concepts presented in the film, what interesting facts or ideas does the movie bring to mind?
- d. As a grade school/high school student, what concepts presented in the film are relevant in addressing issues concerning the role of the youth in the contemporary times?

5. Visitor Count Form

- a. The teacher/guide shall prepare the Visitor Count Form and submit the same to the Regional Science Education Program Supervisor. The form to be used is provided in Enclosure No. 4.

6. The Regional Offices (ROs) shall collate the Visitor Count Form and prepare the Summary Form as provided in paragraph 4 of this DM.



INTERNATIONAL SHORTLIST 2018

[Festival Theme 2018: The Food Revolution]

Early Learners

Title: Recycling PET-String

Original Title: Reutilizando la botella plástica: Cordel

Category: Science Shorts & Non-Verbal

Directors: Regla Bonora Soto

Produced by: Cubavisión

Running Time: 03:00 Minutes

Country: Cuba

Year: 2017

Age Guideline: Early Learners (5 – 8)

This short film shows how we can use recycled plastic for many different purposes. A designer gets long plastic string from the body of a 1.5 liter PET bottle. The string is used for tying a little box, for hanging some toys as a clothesline, for pulling a little toy, for flying a kite, for catching dew to moisten a little citrus plant, for hanging a picture up on the wall.

Title: Tomas Alba and Edison - The Rainy Cloud

Original Title: Tomás, Alba y Édison: el llovedor

Category: Science Shorts & Non-Verbal

Directors: Daniela Giraldo and Juan Cañola

Produced by: Camello Audiovisual, Señal Colombia and Clap Studios

Running Time: 05:59 Minutes

Country: Colombia

Year: 2018

Age Guideline: Early Learners (5 – 8)

Alba's flower is thirsty because there is no water around and is very hot. Tomas creates a rainy cloud to water the flower, save its life and -by this way-, earn Alba's heart. But things does not work as he planned, and everything go worst! Finally, Tomás and Alba, altogether, discover how rain works and save Alba's flower's life improving the invention that Tomas built before.

Primary School (9-12)

Title: nine-and-a-half at Planet School: Sugar-free Sweets - Snacking with no End?

Original Title: neuneinhalb bei Planet Schule: Zuckerfreie Süßigkeiten - Naschen ohne Ende?

Category: Family Edutainment

[Festival Theme 2018: The Food Revolution]

Directors: tvision GmbH

Produced by: WDR

Running Time: 09:30 Minutes

Country: Germany

Year: 2015

Age Guideline: Primary School (9-11)

Eating sweets endlessly without getting overweight or getting tooth decay - who does not dream of that? Presenter Siham wants to find out if that's possible and tests sugar-free sweets. In a food laboratory, she learns why they taste sweet at all, when supposedly no sugar is in it and what different kinds of sweeteners is available. She also asks a nutritional expert if sugar-free sweets are than the other kind. And of course she conducts a great taste test: Do sugar-free sweets really taste as good as normal ones with sugar?

Title: nine-and-a-half Reporters: Bees Dying - Why the Hard-working Pollinators Are Endangered

Original Title: neuneinhalb – Deine Reporter: Bienensterben – Warum die fleißigen Bestäuber gefährdet sind

Category: Family Edutainment

[Festival Theme 2018: The Food Revolution]

Directors: Stefan Brand, Autor

Produced by: tvision GmbH (im Auftrag für den WDR)

Running Time: 09:30 Minutes

Country: Germany

Year: 2017

Age Guideline: Primary School (9-11)

Apples, cucumbers, pumpkins—without bees, there would hardly be any fruit and vegetables. We owe the diligent pollinators almost every third bite we eat! For quite some time now, however, there has been talk of "bee mortality" in the media. Robert wants to know what's behind it and meets the bee researcher Daniela Warzecha. He learns why the bees suffer, and why we humans are responsible above all. The students of the Fritz Winter Comprehensive School want to save the bees and set up a bee club. We will find out what dangerous evildoers are fight in their bee colonies and why beekeeper play a particularly important part.

Title: nine-and-a-half Reporters: Cheap Milk - Why Milk is Hardly Worth It

Original Title: neuneinhalb – Deine Reporter: Billigware Milch – Warum sich Melken kaum noch lohnt

Category: Family Edutainment

[Festival Theme 2018: The Food Revolution]

Directors: Christine Roskopf / Dreh Stefan Brand

Produced by: tvision GmbH (im Auftrag für den WDR)

Running Time: 09:30 Minutes

Country: Germany

Year: 2017

Age Guideline: Primary School (9-11)

Where does our milk come from? Jana is following the path of her milk carton today. She wants to find out, why many farmers complain that their milk is sold too cheaply. Her investigation leads her first to a dairy and from there, to a dairy farm with about 2,700 cows. Jana quickly realizes that cows are hard work. Milking is therefore hardly worthwhile for many farmers. In this episode of nine-and-a-half, we learn why there is too much milk in Germany and the consequences of low milk prices for the cows.

Title: nine-and-a-half Reporters: Day-old Chicks – Why Millions of Male Chickens Have to Die

Original Title: neuneinhalb – Deine Reporter: Eintagskuken – Warum Millionen männliche Hühner

sterben müssen

Category: Family Edutainment

[Festival Theme 2018: The Food Revolution]

Directors: Sarah Schultes

Produced by: tvision GmbH (im Auftrag für den WDR)

Running Time: 09:30 Minutes

Country: Germany

Year: 2017

Age Guideline: Primary School (9-11)

Just hatched and already they have to die. An estimated 50 million male chicks in Germany are met with this fate every year. They are sorted out and killed right after hatching. This also happens in the hatchery of Werner Hockenberger, where nine-and-a-half reporter Jana visited. Here, the sorting out of day-old chicks belongs to the daily agenda. In this episode, we learn why many male chickens are not even allowed to live a day and what is special about the dual-use chickens of farmer Dietmar Rapp, as well as how to stop the killing.

Title: The Show with the Mouse - Dry-Freezing

Original Title: Die Sendung mit der Maus - Gefrietrocknen

Category: Family Edutainment

[Festival Theme 2018: The Food Revolution]

Directors: Christoph Biemann

Produced by: DeltaTV Filmproduktion (on behalf of WDR)

Running Time: 06:27 Minutes

Country: Germany

Year: 2017

Age Guideline: Primary School (9-11)

A delicious muesli would be just right for Christoph about now. In the muesli bag are dry minisstrawberries, which look quite real. Christoph sets out on the track of the strawberries and finds out how a freezer and an air extractor make fresh food last longer.

Title: mathXplosion Episode 5 - How Tall is a Tree

Category: Family Edutainment

Directors: Jocelyn Forgues

Produced by: GAPC Entertainment

Running Time: 03:00 Minutes

Country: Canada

Year: 2015

Age Guideline: Primary School (9-11)

How can you find the height of something tall—like a tree or a basketball net—without using a ladder? All you need is to follow the rule of thumb. It's not magic, it's math!

Title: Question meets Answer: How Do Plants Feed Themselves?

Original Title: Frage trifft Antwort: Wie ernähren sich Pflanzen?

Category: Natural Science, Life Science & Technology

Directors: Planet Schule

Produced by: SWR / Planet Schule

Running Time: 03:00 Minutes

Country: Germany

Year: 2013

Age Guideline: Primary School (9-11)

Animals eat plants or other animals. But what do plants actually feed on? Can they live on water, air and light alone? Using sunlight, carbon dioxide in the air and water, plants can produce the substances they need to grow.

Title: Checker Tobi - The Milk Check

Original Title: Checker Tobi – Der Milch-Check

Category: Family Edutainment

Directors: Marion Keienburg

Produced by: Megaherz Film und Fernsehen GmbH

Running Time: 25:00 Minutes

Country: Germany

Year: 2015

Age Guideline: Primary School (9-11)

When we are born, our first meal is milk. This is not only the case for us humans, but for all mammals. Tobi explores what exactly is in milk and how does the milk get to the supermarket. South of Lake Chiemsee, dairy farmer Jakob makes sure that milk is replenished every day - or more accurately perhaps, his cows make sure. Equipped with a stool and a jug, Tobi tries his luck at milking. But Hilde, Bummerl and the other cows, are not at all in the mood to be milked by the inexperienced Checker. Together with laboratory assistant Julia, Tobi also finds out what milk is actually made out of in a dairy in southern Bavaria.

Title: Earth to Future - Is Our Weather Changing

Original Titel: ERDE AN ZUKUNFT - Verändert sich unser Wetter?

Category: Family Edutainment

Directors: Kai Schmitt

Produced by: Der Kinderkanal von ARD und ZDF

Running Time: 11:11 Minutes

Country: Germany

Year: 2017

Age Guideline: Primary School (9-11)

For a long time, people have dreamed of influencing the weather. That has succeeded in some way, only differently, than one might have hoped: we humans influence the global water cycle and the climate. In turn, climate change inevitably affects Germany and will raise temperatures by as much as four degrees Celsius by the year 2100. The consequences will be more extreme weather in ever shorter intervals. Felix tries to find out what that exactly means.

Title: Earth to Future - Raw Materials from the Deep Sea

Original Titel: ERDE AN ZUKUNFT - Rohstoffe aus der Tiefsee

Category: Family Edutainment

Directors: Kai Schmitt

Produced by: Der Kinderkanal von ARD und ZDF

Running Time: 11:36 Minutes

Country: Germany

Year: 2017

Age Guideline: Primary School (9-11)

The deep sea is one of the great secrets of this world. There are extreme conditions: absolute darkness, cold and enormous pressure. Some researchers predict that up to 100 million animal and plant species live there, much of which is unknown, as are the intrinsic laws and relationships of this unique ecosystem. However, there are already concrete plans to intervene in this ecosystem to mine copper, indium or lithium for mobile phones, batteries and computer processors. The scarcer the reserves become on land, the more companies invest in research into the extraction of raw materials from the deep sea - a disturbance of the ecological balance with unpredictable consequences.

Title: Hawkeye - Adventure in Busuanga

Category: Family Edutainment

Directors: N/A

Produced by: ABS-CBN Corp.

Running Time: 17:54 Minutes

Country: Philippines

Year: 2017

Age Guideline: Primary School (9-11)

Matanglawin's Kuya Kim goes on an adventure to find a little piece of Africa in the Philippines on the island dubbed "the best in the world": Busuanga, Palawan! Busuanga is the home to more than a hundred animals that roam in the 3,760-hectare Calauit Safari Park. And it's not just ordinary animals that live here, because aside from the endemic calamian deers, there are animals that would make you feel as if you were in Kenya: from gazelles to bushbucks to zebras and giraffes! Kuya Kim also shares trivia about giraffes and zebras – for example, how their stripes are important in their survival in the wild.

Title: House of Little Scientists - Biting Plants

Category: Family Edutainment

Directors: Warinnet termsirikamol

Produced by: Her Royal Highness Princess Maha Chakri Sirindhorn's Personal Affairs Division

Running Time: 10:00 Minutes

Country: Thailand

Year: 2017

Age Guideline: Early Learners (5 – 8)

In this episode, it's all about carnivorous plants. We learn about the nature of these plants and how they eat animals. The film's 3D animation sections add fun and informative sequences. In the end, the audience is encouraged to send in their story, explaining why they want to be little scientists. The best stories will be chosen and showed in the program with the adorable animations.

Title: Knietzsche: Bon Appetit! Knietzsche Eats

Original Title: Knietzsche: Prost Mahlzeit! - Knietzsche isst

Category: Family Edutainment

[Festival Theme 2018: The Food Revolution]

Directors: Anja von Kampen

Produced by: WDR

Running Time: 10:00 Minutes

Country: Germany

Year: 2018

Age Guideline: Primary School (9-11)

Everyone knows that nutrition is the key to a healthy life. But Knietzsche shares his thoughts in a way so children don't roll their eyes annoyed. Funny and offbeat, in "Knietzsche and the diet" he thinks about "too much" and "too little" and about animal-loving meat eaters and vegans. Together with our reporter Jasmin, we go on a journey to the places where lunch comes from and look behind the scenes on an organic farm, where she learns everything about what "organic" and "eco" means, and a "vegetarian butcher" explains to her how delicious sausage can taste without animals.

Title: Messi Goes to Okido - Okido in Bloom

Category: Family Edutainment

Directors: Liz Whitaker

Produced by: Jules Coke

Running Time: 10:00 Minutes

Country: United Kingdom

Year: 2015

Age Guideline: Early Learners (5 – 8)

The sky is full of big grey rain clouds in the real world. Messy watches his sandcastle outside get washed away by the pouring rain. Why does it have to rain? He competes in the Okido flower competition and finds out why!

Title: Messi Goes to Okido - Second Chances

Category: Family Edutainment

Directors: Liz Whitaker

Produced by: Jules Coke

Running Time: 10:00 Minutes

Country: United Kingdom

Year: 2015

Age Guideline: Early Learners (5 – 8)

Messy helps his friends find Zoe's lost communicator, which has ended up in the recycling but luckily, Zim is magnetic!

Title: Mimicries: Close

Category: Family Edutainment

Directors: Taro Okayama, Yoko Tsuzuki

Produced by: NHK Educational Corporation for NHK

Running Time: 16:00 Minutes

Country: Japan

Year: 2016

Age Guideline: Early Learners (5 – 8)

Plants don't move on their own, or do they? This film introduces plants with leaves that close, and ask kids to come up with ideas to explain why. It also explores how flies and bees differ through a comedy routine, and invites kids to find an insect that mimics dry leaves.

Title: The Show with the Elephant - Milk Special

Original Title: Die Sendung mit dem Elefanten - Milch-Spezial

Category: Family Edutainment

[Festival Theme 2018: The Food Revolution]

Directors: Renate Bleichenbach and others

Produced by: Westdeutscher Rundfunk Köln

Running Time: 24:25 Minutes

Country: Germany

Year: 2015

Age Guideline: Primary School (9-11)

This fun and fact story is about milk. Two short films show how cows are milked and how the milk

finally gets into the bottle. Anke Lapanke demonstrates a magic trick that also has something to do with milk. Körperklaus and the Wackeldackel sing a song about "Milkshake". And Tanja and André show Knolle, which foods are made from milk. Finally, Knolle will have to answer a tricky question: Can he find out which of the foods is not made from milk? The world is elephantastic - open your eyes and join in! The little Blue Elephant and his friends present stories to discover, marvel and laugh at -especially for small children.

Secondary Schools (13-16)

Title: Planet Power 3D

Category: Ecology & Environment

Directors: Pascal Vuong & Ronan Chapalain

Produced by: N3D LAND Films

Running Time: 40:00 Minutes

Country: France

Year: 2018

Age Guideline: Secondary School (12 - 16)

Today, electricity is indispensable to mankind. Energy of choice for innovation and development, electricity is also the energy of our future as long as it is produced in a cleaner and more sustainable way. By mixing traditional animation and CGI to spectacular aerial shots, "PLANET POWER" shows how renewable energy can help us fight climate change while improving our quality of life and protecting the environment. Now, thanks to clean technologies, the greatest forces of nature can help make our planet cooler. It is also a story of pioneers, scientists and inventors, one that began 200 years ago, driven by innovation.

Title: Death Dive to Saturn

Category: Natural Science, Life Science & Technology

Directors: Terri Randall

Produced by: Terri Randall, Paula Apsell

Running Time: 53:10 Minutes

Country: USA

Year: 2017

Age Guideline: Secondary School (12 - 16)

Almost everything we know today about the beautiful giant ringed planet comes from Cassini, the NASA mission that launched in 1997 and arrived at Saturn in 2004. Since then, the spacecraft has been beaming home miraculous images and scientific data, revealing countless wonders about the planet, its rings, and 62 moons. As the mission approaches its final days in 2017, it attempts one last set of daring maneuvers—diving between the innermost ring and the top of Saturn's atmosphere. We join NASA engineers for the tense and triumphant moments and discover the wonders that Cassini has revealed over the years.

Title: Norway's Magical Fjords

Original Title: Magie der Fjorde

Category: Natural Science, Life Science & Technology

Directors: Jan Haft

Produced by: nautilusfilm GmbH für doclights GmbH im Auftrag des NDR, ARTE, ORF, SVT

Running Time: 52:00 Minutes

Country: Germany

Year: 2017

Age Guideline: Secondary School (12 - 16)

The Norwegian Fjords are among the most dramatic landscapes in Europe. Billions of herring darken the waters, and orcas and humpback whales feast on the fish banquet. Migrating salmon leap up waterfalls, strange sea pens flash their lights, and colorful sea slugs glow in the deep. Slow-motion and time-lapse photography reveal an extraordinary diversity of life and behaviors rarely seen. It's an intimate portrait of a unique wilderness—in the dark, icy grip of winter and during the long polar nights of the midnight sun.

Title: MC Grease da Disease

Category: Science Shorts & Non-Verbal

Directors: Camillo Meinhart

Produced by: EU, Horizon 2020

Running Time: 02:44 Minutes

Country: Austria

Year: 2018

Age Guideline: Secondary School (12 - 16)

MC Grease da Disease, A.K.A. Mycoplasma bovis, is a pathogenic bacterium that causes diseases in cows. Unharmful by even antibiotics, he lives unhindered like a rogue in the cow's lung, until the researchers of the project MycoSynVac discover a really ingenious way to fight him off. The scientists take a close relative of MC Grease, called Mycoplasma pneumoniae, and make him "an offer he can't refuse". Not unlike in a witness protection program, the scientists provide M. pneumoniae with a totally new identity by reprogramming his genome. By doing that, they're able to create a synthetic vaccine that trains the cow's own immune defense system—which means that it becomes strong and smart enough to find and kick out M. bovis.

Title: My Genome Sequence

Category: Natural Science, Life Science & Technology

Directors: Michael Cash

Produced by: Great Ormond Street Hospital & UCL Institute of Child Health

Running Time: 02:27 Minutes

Country: United Kingdom

Year: 2017

Age Guideline: Secondary School (12 - 16)

This explanatory video was aimed at 11 to 16-year-old patients of Great Ormond Street Hospital to explain the concept behind genome sequencing and what this would practically involve for them. At the heart of the story is a girl. The film shows her and her family's experience of having her genome sequenced and interpreted in order to help doctors diagnose her condition and decide on the best treatment. The voice-over was carried out by a young patient at Great Ormond Street Hospital whose own genome had been sequenced as part of the 100,000 Genomes Project. The film was developed as part of a research project supported by the Great Ormond Street Hospital Children's Charity.

Title: Quarks at Planet School - What the Banana Reveals about the World

Original Title: Quarks bei Planet Schule - Was uns die Banane über die Welt verrät

Category: Natural Science, Life Science & Technology

[Festival Theme 2018: The Food Revolution]

Directors: Ilka aus der Mark

Produced by: WDR / Planet Schule

Running Time: 30:00 Minutes

Country: Germany

Year: 2016

Age Guideline: Secondary School (12 - 16)

The banana is one of the cheapest food products around nowadays. For a long time already, the price cuts have had nothing to do with the true price of this elaborately grown tropical fruit. But there is another way: The program introduces a supermarket in the Netherlands, which successfully sells fair trade bananas with a well-thought-out concept. Nonetheless, the banana is threatened with extinction! Already in the late 1950s, a fungus raged through the banana plantations of Central America. The solution at the time: a resistant variety, the Cavendish banana, which today is the variety most cultivated worldwide. But for some years now, a new fungus rages: TR4 - and this time, there is no resistant strain.

Title: Quarks at Planet School - What is Life Like as a Vegetarian?

Original Title: Quarks bei Planet Schule - Wie lebt es sich als Vegetarier?

Category: Natural Science, Life Science & Technology

[Festival Theme 2018: The Food Revolution]

Directors: Ilka aus der Mark

Produced by: WDR

Running Time: 30:00 Minutes

Country: Germany

Year: 2014

Age Guideline: Secondary School (12 - 16)

According to estimates, there are between 1.3 and 7 million vegetarians in Germany who refrain from eating beef, fish or other meats. The majority considers the well-being of animals as main reason, but many also believe that they eat healthier by avoiding meat products. The film introduces young vegetarians and meat-eaters, who share their motivations and experiences. Through a series of short films, common arguments for and against a meatless diet are examined.

There are surprising findings: For example, a vegetarian diet does not generally impact the climate less - so the carbon footprint of hard cheese, is actually greater than that of pork! In addition, there are often hidden animal products in supposedly vegetarian foods, such as the gelatin in gummy bears.

Title: Quarks at Planet School - The Truth about Vitamins!

Original Title: Quarks bei Planet Schule - Die Wahrheit über Vitamine!

Category: Natural Science, Life Science & Technology

[Festival Theme 2018: The Food Revolution]

Directors: Ilka aus der Mark

Produced by: WDR / Planet Schule

Running Time: 30:00 Minutes

Country: Germany

Year: 2015

Age Guideline: Secondary School (12 - 16)

Vitamins are considered to be miracle workers: they should make you more efficient, help against weariness and fatigue, protect against illness and delay old age. The market for vitamin supplements has been booming for years. However, scientists warn: Vitamin pills are mostly superfluous and may even harm your health. 11-year-old Selma uses her mobile phone to document what she eats for five days and an expert determines the vitamin content of her food. The result shows what even large studies prove: the vast majority of people in Germany are already well-supplied with vitamins. The program explains why our body needs vitamins, what vitamin supplements bring and who really needs them.

Title: Eclipse Over America

Category: Natural Science, Life Science & Technology

Directors: Martin Gorst

Produced by: Martin Gorst, Paula Apsell, Carlo Schmidt, Carlo Massarella

Running Time: 53:02 Minutes

Country: USA

Year: 2017

Age Guideline: Secondary School (12 - 16)

On August 21, 2017, millions of Americans witnessed the first total solar eclipse to cross the continental United States in 99 years. Scientists, too, staked out spots for a very different reason: to investigate the secrets of the sun's elusive atmosphere. During the eclipse's precious seconds of darkness, they gathered new clues on how our sun works, how it can produce deadly solar storms, and why its atmosphere is so hot. NOVA investigates the storied history of solar eclipse science and joins both seasoned and citizen-scientists alike as they don their eclipse glasses, tune their telescopes.

University and General Public (above 17)

Title: Utopia Revisited

Original Title: Zeit für Utopien

Category: Ecology & Environment

[Festival Theme 2018: The Food Revolution]

Directors: Kurt Langbein

Produced by: Kurt Langbein, ORF

Running Time: 94:00 Minutes

Country: Austria

Year: 2018

Age Guideline: University and General Public (17+)

Regional, fresh and organic food for 1.5 million people; smart urban living using only a fraction of the energy usually consumed; a smartphone produced on a fair basis and a self-managed tea plant, whose workforce fought more than three years to take its future into its own hands. Since the breakdown of "real socialism", people all over the world are searching for alternatives to unbridled capitalism. Is there a model for a just society out there? Four individuals say: Yes! They took a path away from greed and profit - and learned a lot along the way. They take us on a personal journey to the promising possibilities of solidarity. "Utopia Revisited" is a cinematic expedition to the pioneers of a new society.

Title: Gulf Stream – King of Currents

Original Title: Golfstrom - der große Fluss im Meer

Category: Ecology & Environment
Directors: Rolf Lambert
Produced by: SWR und Along Mekong Prod.
Running Time: 60:00 Minutes
Country: Germany
Year: 2016/2017
Age Guideline: University and General Public (17+)

The Gulf Stream, as part of a global cycle of ocean currents, brings heat from the Gulf of Mexico to the far north of Europe. It is being weakened through the melting of the Greenland ice sheet - with global consequences. The film shows the fascinating landscapes that are shaped by the warm ocean current and introduces people who live by or explore the Gulf Stream - in Cuba, on the US East Coast, in Canada, in the Azores, in France's Brittany, Iceland, Ireland, the Scottish Orkneys, and Lofoten in Norway. The consequences of a faltering Gulf Stream for the planet are explained in the documentary by renowned scientists such as the Kiel Climate Researchers and oceanographer Mojib Latif.

Title: Macaw Kingdom
Original Title: Papagáj Expedició
Category: Natural Science, Life Science & Technology
Directors: Attila Dávid Molnár
Produced by: Filmjungle.eu Society, Wildlife Messengers, Rainforest Expeditions, Media Council of Hungary, Innovate Perú
Running Time: 52:00 Minutes
Country: Peru, Hungary
Year: 2018
Age Guideline: University and General Public (17+)

Zoologist George Olah finally got a special permission from the government of Peru, giving him access to the Holy Grail of parrot researchers: the Candamo Basin in the Peruvian Amazon. Surrounded by the foothills of the Andes, the Candamo Basin hosts one of the very few uninhabited tropical rainforest of the world. The film follows an international scientific expedition into the jungle, investigating nest hollows, capturing and tagging young macaws and collecting blood samples and feathers for genetic analysis. But doing serious scientific work in the Amazon is no easy feat.

Title: Marine Mammals - Champions of the Deep
Category: Natural Science, Life Science & Technology
Directors: Bertrand LOYER
Produced by: Bertrand LOYER - SAINT THOMAS PRODUCTIONS
Running Time: 50:00 Minutes
Country: France
Year: 2017
Age Guideline: University and General Public (17+)

Deep beneath the ocean exists an incredibly hostile, icy, dark world where the pressure is phenomenal. This world is the abyssal realm—the largest habitat on our planet. Yet some marine mammals that breathe air spend a large part of their days in this shadowy world. Scientists are now discovering that the depths reached by these giants are greater than they had ever imagined. Using tags attached to the animals, cameras in the deep ocean trenches and 3D scanning images, this film illustrates a modern scientific revolution and shows animals that are extremely rare and the remarkable physiological adaptations that allow them to dive so deep..

Title: Namib: Surviving the Sand Sea
Category: Natural Science, Life Science & Technology
Directors: Oliver Halsey
Produced by: Gobabeb Research and Training Centre
Running Time: 50:00 Minutes
Country: Namibia
Year: 2017
Age Guideline: University and General Public (17+)

“Namib: Surviving the Sand Sea“ explores life in one of the driest places on Earth, the hyper-arid

Namib Desert. An abundance of unique and remarkable organisms calls this seemingly inhospitable land their home. The filmmaker, Oliver Halsey, spent over a year getting to understand and film various desert organisms at Gobabeb, a scientific research station in the central Namib.

Title: Secrets in the World's Largest Forest

Category: Ecology & Environment

Directors: Ryszard Hunka

Produced by: Merit Motion Pictures, PBS

Running Time: 53:00 Minutes

Country: Canada

Year: 2017

Age Guideline: University and General Public (17+)

Combining spectacular panoramic visuals with high-end CGI, this stunning nature documentary explores the secret life of trees, and how the world's last great forest has the power to shape not only the lives of the plants and animals that live within it, but life across the entire globe. Host David Suzuki and scientists working in boreal regions around the world reveal the many unexpected ways that the trees of the boreal forest communicate with each other, form friendships, and team up to face the elements.

Title: Super Sapiens - Episode 1: Enhanced Humans

Category: Natural Science, Life Science & Technology

Directors: Markus Mooslechner, Ivo Filatsch

Produced by: A production of Terra Mater Factual Studios

Running Time: 49:04 Minutes

Country: Austria

Year: 2017

Age Guideline: University and General Public (17+)

Humanity faces a turning point: the next stage in the evolution of the human brain, and it's being driven by machines. This fascinating two-part documentary investigates the phenomenon, introduces the different players and asks: what are the real-world consequences of a super brain? In the process, we meet young and innovative thinkers who are using technology to unlock our own in-born mindabilities. In the first episode, we are exploring technologies that promise to provide humans with superpowers, and witness experiments that are literally changing minds!

Title: Toxic Bees - Human Intervention

Category: Natural Science, Life Science & Technology

[Festival Theme 2018: The Food Revolution]

Directors: Yen Ming LAI

Produced by: Taiwan Public Television Service Foundation

Running Time: 58:52 Minutes

Country: Taiwan

Year: 2017

Age Guideline: University and General Public (17+)

Starting with Colony Collapse Disorder, the program denounces a long list of agrochemical misuse, including the potential for harm to human health and the environment, probing the shortcomings and blind spots of present-day governmental policies on agrochemicals, and informing the viewer that misuse of agrochemicals constitutes an irreversible disaster.

Title: Beware - Mealworms Are Coming

Original Title: Vorsicht, der Mehlwurm kommt

Category: Natural Science, Life Science & Technology

[Festival Theme 2018: The Food Revolution]

Directors: Norbert Lübbers

Produced by: WDR/ARTE

Running Time: 30:00 Minutes

Country: Germany

Year: 2017

Age Guideline: University and General Public (17+)

Mealworms and crickets are considered a valuable protein source. Two billion people regularly eat

insects, but most Europeans find it hard to work up an appetite for it. The EU wants to change that now. A new regulation is intended to considerably simplify the authorization of food products made from insects. From as early as 2018, creepy-crawlies could land on plates throughout Europe. Two entrepreneurs, Max Krämer and Baris Özel, have developed an insect burger, which consists mainly of Buffalo worms. So far though, they have only been allowed to offer it outside of EU countries. However, due to the so-called Novel Food Regulation, it is only a matter of time until the insect burger lands on German menus.

Title: Food 3.0 - Episode 1: Techno Food

Category: Ecology & Environment

[Festival Theme 2018: The Food Revolution]

Directors: Jean-Baptiste Erreca & Guilhem Rondot

Produced by: La Cie des Taxis-Brousse, Rappi Productions, Productions Nova Media

Running Time: 43:00 Minutes

Country: France

Year: 2017

Age Guideline: University and General Public (17+)

Given our current practices, the planet will soon be unable to satisfy the demand for food. This is already of vital concern, but it is set to become even more pressing. What kind of solutions could help us rise to this immense challenge? Food 3.0 provides a three-part answer to this question. In episode one: The billionaires in Silicon Valley have set out to save the planet from malnutrition and abolish animal suffering in slaughterhouses. Mayonnaise without eggs, milk without cows and meat without beef. But what will become of our farmers, breeders and food culture then?

Title: Food 3.0 - Episode 2: Organic Food

Category: Ecology & Environment

[Festival Theme 2018: The Food Revolution]

Directors: Jean-Baptiste Erreca & Guilhem Rondot

Produced by: La Cie des Taxis-Brousse, Rappi Productions, Productions Nova Media

Running Time: 43:00 Minutes

Country: France

Year: 2017

Age Guideline: University and General Public (17+)

Given our current practices, the planet will soon be unable to satisfy the demand for food. This is already of vital concern, but it is set to become even more pressing. What kind of solutions could help us rise to this immense challenge? Food 3.0 provides a three-part answer to this question. In episode two: Some advocate a return to true, local culture that respects the soil and nature. But is it enough to feed everyone? Some even recommend to substitute certain proteins through the consumption of algae and insects.

Title: Food 3.0 - Episode 3: Franken Food

Category: Ecology & Environment

[Festival Theme 2018: The Food Revolution]

Directors: Jean-Baptiste Erreca & Guilhem Rondot

Produced by: La Cie des Taxis-Brousse, Rappi Productions, Productions Nova Media

Running Time: 43:00 Minutes

Country: France

Year: 2017

Age Guideline: University and General Public (17+)

Given our current practices, the planet will soon be unable to satisfy the demand for food. This is already of vital concern, but it is set to become even more pressing. What kind of solutions could help us rise to this immense challenge? Food 3.0 provides a three-part answer to this question. In the third episode: The increase in populations and living standards in some countries, such as India and especially China, increases the need for protein supply, especially from meat. Now, countries like China are exploring genetic manipulation and cloning. What are some of the potential consequences?

Title: Planet Power Future China 2049 – Episode 2: The Green Revolution

Category: Ecology & Environment

Directors: Julian Thomas

Produced by: Beach House Pictures Pte Ltd

Running Time: 44:00 Minutes
Country: Singapore
Year: 2017
Age Guideline: University and General Public (17+)

China has a dream; of becoming one of the world's most developed nations by its centenary in 2049. To achieve it, over the next 30 years it will lay down more infrastructure than the rest of the world has in its history. Modernizing and greening cities and buildings, the way people travel and trade, embracing technology, and finding new ways to care for and feed over 1.3 billion people. In these programs, we reveal how far China has come in realizing its dream, and use state of the art CGI to bring that realization, to life.

Title: Burwood Bank - The Submerged Island
Original Title: La isla sumergida. Banco Burwood
Category: Ecology & Environment
Directors: Gastón García Gevara
Produced by: Conicet Documental and Canal Encuentro
Running Time: 25:52 Minutes
Country: Argentina
Year: 2017
Age Guideline: University and General Public (17+)

South of the Malvinas Islands, we find the Burdwood Bank, the first oceanic park of Argentina. Extending over 28,000 km² this marine protected region is one of the areas with the largest biological wealth in the Argentine Ocean. The series explores the origin, composition, biodiversity and the particularities of the ocean dynamics that intrigue scientists even today.

Title: Improbable Research
Original Title: Recherches Farfelues
Category: Natural Science, Life Science & Technology
Directors: Cyril Fleury + Patrice Goldberg
Produced by: Patrice Goldberg
Running Time: 25:43 Minutes
Country: France
Year: 2017
Age Guideline: University and General Public (17+)

Why does buttered bread always land wrong side down? Why can a discus thrower suffer from dizziness but a hammer thrower never does? Why are some of us scared of holes? These questions may seem improbable yet they are the subject of very serious research carried out by equally serious scientists. And the answers the latter come up with are sometimes astounding! So, even when someone is interested in research that, in theory, is improbable, you eventually come to the conclusion that it is better not to judge too much by appearances. Because real scientific issues may lie behind the research and it could have significant implications for our everyday life...

Title: The Berrymakers
Category: Natural Science, Life Science & Technology
[Festival Theme 2018: The Food Revolution]
Directors: Camillo Meinhart
Produced by: Biofaction KG
Running Time: 22:15 Minutes
Country: Austria
Year: 2017
Age Guideline: University and General Public (17+)

This documentary is about the international research and innovation project BACHBERRY that searched for valuable substances in plants, particularly berries that could be beneficial for the human health. We travel to the experimental Vavilov research station in Russia, visit the biochemical analysts at the Hutton Institute in Scotland, compare color pigments in Montpellier, and talk to the researchers in Lisbon who test plant extracts on so-called "humanized yeast". The film gives a clear idea why the discovery of useful substances and their genes is so important for human health and the bio economy and how these genes could be used to make these hardly available substances in larger quantities with the help of engineered microorganisms.

Title: What Makes Science True?

Category: Natural Science, Life Science & Technology
Directors: Dakin Henderson and Kelly Thomson
Produced by: The Laura and John Arnold Foundation
Running Time: 15:00 Minutes
Country: USA
Year: 2016/2017
Age Guideline: Secondary School (12 - 16)

What makes science reliable? The ability to reproduce the results of an experiment, known as reproducibility, is one of the hallmarks of a valid scientific finding. But science is facing what many consider a reproducibility crisis, and the stakes are high. Many scientific claims cannot be replicated, and many clinical trials fail as a result. This 15-minute video examines the reproducibility crisis and reports on the outcome of five experiments designed to test the reproducibility of cancer biology studies.

Title: Phenology
Category: Science Shorts & Non-Verbal
[Festival Theme 2018: The Food Revolution]
Directors: Katharina Weikl
Produced by: Universität Zürich
Running Time: 03:28 Minutes
Country: Switzerland
Year: 2017
Age Guideline: University and General Public (17+)

Strawberries ripen in the spring, melons in the summer, and corn is harvested in the fall: We humans are dependent on the changing seasons. In her PhD thesis at the University of Zurich's Department of Geography, Irene Garonna looked into the question of how the seasons are shifting along with climate change. Various studies have shown that for many plant species, spring has been coming earlier in recent decades. Satellite imagery helps document changes in the seasons and might also enable us to better understand and potentially predict the effects of climate change on our environment.

Title: Why Conserve Biodiversity?
Category: Science Shorts & Non - Verbal
Directors: Luis Navarro
Produced by: Divulgare, Universidade de Vigo
Running Time: 04:50 Minutes
Country: Spain
Year: 2018
Age Guideline: University and General Public (17+)

For hundreds of millions of years, large vertebrates (mega fauna) have inhabited most of the ecosystems of our planet. Nevertheless, coinciding with the beginning of human, the Earth experienced an episode of rapid increase in the extinction of these large terrestrial vertebrates. Now we begin to understand the dire consequences that the loss of these animals is causing in natural ecosystems. In this video, we show the impact that the loss of mega fauna can have on other organisms with which they interacted, as is the case of plants that disperse their seeds enclosed in fleshy fruits.

Title: Zebrafish: Practically People, Transforming the Study of Disease
Category: Science Shorts & Non-Verbal
Directors: Jennifer A. Manner
Produced by: Jennifer A. Manner and ZScientific LLC
Running Time: 09:47 Minutes
Country: USA
Year: 2017
Age Guideline: University and General Public (17+)

In a world...where healthcare spending is out of control, what if we could get better data, spend pennies on the dollar, and get results in a fraction of the time? Let's take the Zebrafish. The simple Zebrafish is a largely untapped treasure trove for understanding, treating and curing human diseases, including cancers, diabetes, heart disease, opioid addiction, Alzheimer's disease, autism and others. How is this possible? Humans and Zebrafish share 70% of the same genes plus, 84% of our known genes.

Title: Mysterious Discoveries in the Great Pyramid**Original Title:** Khéops, mystérieuses découvertes**Category:** Culture & History**Directors:** Florence Tran**Produced by:** A Bonne Pioche / France Télévisions / HIP / NHK co-production

In association with Thirteen

Running Time: 85:00 Minutes**Country:** France**Year:** 2017**Age Guideline:** University and General Public (17+)

The only one of the seven ancient wonders of the world still standing, the Great Pyramid of Giza, has fascinated people for centuries. In November 2017, the Scan Pyramids research team announced they had made an historic discovery—using cutting-edge, non-invasive technology, they discovered several new cavities within the Great Pyramid. We witness the first scientific mission in 30 years to be authorized by the Egyptian government to examine the pyramid of Khufu, its adventures, trials and successes in this unique journey through time and space.

Title: Call of the Forest: The Forgotten Wisdom of Trees**Category:** Ecology & Environment**Directors:** Jeff McKay**Produced by:** Merit Jensen Carr**Running Time:** 85:00 Minutes**Country:** Canada**Year:** 2016**Age Guideline:** University and General Public (17+)

“Call of the Forest” follows scientist and author Diana Beresford-Kroeger across the globe. The film explores the profound human connection to our ancient northern forests through a unique lens of both traditional folklore and modern science, calling each and every one of us to pick up a shovel and take part in replanting the global forest.

Title: For and Against_What do you think - Transgenic Food**Original Title:** ¿Qué piensan los que no piensan como yo? - Alimentos transgénicos**Category:** Natural Science, Life Science & Technology**[Festival Theme 2018: The Food Revolution]****Directors:** Fernanda Rotondaro**Produced by:** Canal Encuentro**Running Time:** 48:20 Minutes**Country:** Argentina**Year:** 2016**Age Guideline:** University and General Public (17+)

Are there answers to all questions? Do we listen to all who think differently? What arguments support our thoughts? Abortion, euthanasia, drugs and other controversial topics are debated in depth and respectfully in this series conducted by the Argentine philosopher Diana Cohen and based on the book what do those who disagree with me really think? Each episode is an invitation to challenge our deepest convictions.

Title: The Kingdom - How Fungi Made Our World**Category:** Natural Science, Life Science & Technology**Directors:** Annamaria Talas/Simon Nasht**Produced by:** Canadian Media Fund, CBC, CuriosityStream, Create NSW, Screen Australia, SVT, Telefilm, ZDF/ARTE**Running Time:** 52:13 Minutes**Country:** Australia / Canada**Year:** 2018**Age Guideline:** University and General Public (17+)

This is the incredible story of how fungi made life on land possible. Neither plants nor animals—fungi represent a third mode of life and belong to their own kingdom. By looking at fungi in the context of evolution and natural history, scientists are making discoveries that will change our lives. Some fungi will save us, others will threaten us and we are just beginning to understand which is which.

Title: Chasing Quakes**Original Title:** Die Erdbeben-Jäger**Category:** Natural Science, Life Science & Technology**Directors:** John Capener**Produced by:** A production of Terra Mater Factual Studios**Running Time:** 49:10 Minutes**Country:** Austria**Year:** 2017**Age Guideline:** University and General Public (17+)

Italy has a long history of earthquakes which has been faithfully recorded and documented for the last 1,000 years. In addition, geologists have been mapping the fault-ridden mountains for decades. This empirical data gives seismologists an excellent foundation on which to build their forecast models. But to truly advance our understanding seismologists need to record major events and the aftermath in much greater detail. This film documents how in August 2016 a group of scientists grabbed the opportunity to gather an unprecedented level of data in the wake of a devastating earthquake in Amatrice. And the months that followed proved equally full of surprises. Their story is an extraordinary snap-shot of what it means to study earthquakes.

Title: The Moon - Our Gateway to the Universe**Original Title:** Der Mond - Unser Tor ins All**Category:** Natural Science, Life Science & Technology**Directors:** Manfred Christ**Produced by:** A Terra Mater Factual Studios production produced by Cosmos Factory**Running Time:** 51:32 Minutes**Country:** Germany**Year:** 2017**Age Guideline:** University and General Public (17+)

Our neighbor in space has been studied and explored for centuries, but it still holds many mysteries. This film presents new and surprising facts about Earth's satellite—and the plans of returning to the Moon.

Title: World War Zika**Original Title:** Zika Enquete Sur Une Epidemie**Category:** Natural Science, Life Science & Technology**[Festival Theme 2018: The Food Revolution]****Directors:** Caroline Vermalle, Malcom Clark**Produced by:** ARTE FRance et PAPRIKA Films, SERIOUSLY TV**Running Time:** 52:00 Minutes**Country:** France**Year:** 2018**Age Guideline:** University and General Public (17+)

Zika is a virus transmitted by mosquitoes that causes mental retardation in newborns and paralysis in adults. Since its appearance in 2015 in Brazil, the scientific world on alert is progressing rapidly. Will that be enough to block the virus now at the gates of Europe? This poignant scientific inquiry reveals the silent proliferation of a seemingly harmless virus on half of the planet. Nobody detected it before its explosion into a deadly epidemic.

Title: Beautiful New Genetic Engineering - Revolution in Plant Breeding**Original Title:** Schöne neue Gentechnik - Revolution in der Pflanzenzucht**Category:** Natural Science, Life Science & Technology**[Festival Theme 2018: The Food Revolution]****Directors:** Anna Grün**Produced by:** Ulrike Römhild, Rainer Leske**Running Time:** 43:43 Minutes**Country:** Germany**Year:** 2016**Age Guideline:** University and General Public (17+)

A new biotechnical tool, the Genscher CRISPR, is revolutionizing genetic engineering. It is cheap and easy to use and therefore no longer reserved for the big seed or chemical companies. Residue-

free, precise interventions in the genome of microorganisms, plants, animals or humans succeed with the Genscher. The procedure is also called genome editing. The latest developments in genetic engineering keep unfolding, opening up opportunities, harboring risks - and forcing us to make decisions that could not be more fundamental. The biotechnical possibilities to manipulate life have already arrived in laboratories around the world.

Title: Organic between Delusion and Meaning

Original Title: Bio zwischen Wahn und Sinn

Category: Natural Science, Life Science & Technology

[Festival Theme 2018: The Food Revolution]

Directors: Torsten Mehlretter

Produced by: Rainer Leske

Running Time: 43:52 Minutes

Country: Germany

Year: 2016

Age Guideline: University and General Public (17+)

Is it really always "organic", when the label says "organic"? How can this be proven? Farmers have to spend a lot of effort to comply with organic guidelines. But are organic foods automatically healthier? At any rate, consumers are willing to pay significantly more for food when it says "organic". However, there are no reliable tests to distinguish between ecologically and conventionally produced foods.

Title: The Seed of Greed

Original Title: Die Saat der Gier

Category: Ecology & Environment

[Festival Theme 2018: The Food Revolution]

Directors: Michael Heussen and Ingolf Gritschneider

Produced by: WDR

Running Time: 44:30 Minutes

Country: Germany

Year: 2017

Age Guideline: University and General Public (17+)

It is said to be the largest planned merger in German economic history: For an incredible 66 billion dollars, Bayer wants to take over the US group Monsanto, which produces the controversial weed killer glyphosate. For many farmers an effective remedy; for critics, however, carcinogenic. What does all this mean for consumers, for farmers - or even global food consumption? The storytellers Ingolf Gritschneider and Michael Heussen spoke with supporters and critics of the mega-merger and filmed them in the research laboratories of Monsanto in the USA. In South America and India, they met scientists and farmers who have already had their own experiences with monocultures, Monsanto seeds and pesticides.

Title: We Are 18 million - How Do We Live in the Future

Original Title: Wir sind 18 Millionen - Wie leben wir in Zukunft?

Category: Ecology & Environment

Directors: Benjamin Arnold

Produced by: Hoferichter & Jacobs GmbH, WDR

Running Time: 44:06 Minutes

Country: Germany

Year: 2017

Age Guideline: University and General Public (17+)

How do the inhabitants live in Germany's most densely populated state in 2030? With aid of statistical forecasts, current science projects and technical innovations, the film takes a look into the future of North Rhine-Westphalia. Some cities will be even busier than they are today, rent and prices will rise and the so-called "bacon belt" will grow. At the same time, people will live increasingly longer and more often also alone. But the apartments are smart: Stoves turn off before the milk burns and the fitness program comes in 3D in the living room.

Title: From Seed to Seed

Category: Natural Science, Life Science & Technology

[Festival Theme 2018: The Food Revolution]

Directors: Katharina Stiefenhofer

Produced by: Katharina Stiefenhofer

Running Time: 86:37 Minutes
Country: Canada
Year: 2018
Age Guideline: University and General Public (17+)

"From Seed to Seed" is a documentary about Canadian farmers of various scales, who are working with scientists to develop improved methods for growing food ecologically/organically and in a changing climate. A hopeful story of blending ancient traditions and cutting edge science to regenerate the land, farming, and communities.

Title: Big Cities: Eco-Food in the Favelas
Original Title: Big Cities: Öko-Essen in der Favela
Category: Ecology & Environment
[Festival Theme 2018: The Food Revolution]
Directors: Patrizia Landi
Produced by: SWR / WDR
Running Time: 13:00 Minutes
Country: Germany
Year: 2017
Age Guideline: University and General Public (17+)

Regina Tchelly founded the initiative "Eco-Favela". She wants to teach people in the favelas to make the most of their food and to eat healthily. She travels all over Brazil with her program and inspires whole neighborhoods with plenty of energy and humor. Sustainable development, food and living conditions, are all topics covered by this short documentary.

Title: Big Cities: Fish and Vegetables Directly from Berlin
Original Title: Big Cities: Fisch und Gemüse direkt aus Berlin
Category: Ecology & Environment
[Festival Theme 2018: The Food Revolution]
Directors: René Habitzl
Produced by: SWR / WDR
Running Time: 14:57 Minutes
Country: Germany
Year: 2016
Age Guideline: University and General Public (17+)

AquaTerraPonik - that is fish and vegetable breeding combined in a closed water cycle. The fish produce fertilizer for the plants, the plants cleanse the water again for the fish. In 2013, the Berlin start-up *TopFarmers* started the project. Since spring 2016, the *TopFarmers* have come up with proof that the system can be economically viable, by presenting the largest AquaTerraPonik system in Europe. The system is to be implemented in the long term on flat roofs. An opportunity - not only for Berlin, but for many cities around the world!

Title: Big Cities: Medellín - Harvest in the Concrete Jungle
Original Title: Big Cities: Medellín - Ernten im Asphaltschungel
Category: Ecology & Environment
[Festival Theme 2018: The Food Revolution]
Directors: Camilo Escobar, Andrés Arias
Produced by: SWR / WDR
Running Time: 12:33 Minutes
Country: Germany
Year: 2017

With 2.4 million inhabitants, Medellín is the second largest city in Colombia - an asphalt jungle that continues to grow. However, many people and initiatives have joined forces to form a gardening network to counter this. Together, they develop the city, grow plants in open spaces, create flower beds and gardens, and bring their initiative to schools.

Title: Shadow Catcher
Original Title: Schattenfänger
Category: Culture & History

Directors: Nadine Zacharias
Produced by: Moving Ideas - Filme für Forschung und Kultur
Running Time: 14:28 Minutes
Country: Germany
Year: 2018
Age Guideline: University and General Public (17+)

Solely the legend of the "Shadow Catchers"—a fallen civilization of bygone times that is known for its high culture and marvelous treasures—remained. Tracing them, the "I" wanders through old, vivid woods, finding a barren, cold adit. And in prospect of finding the legendary treasures and answers to the question how life once has been, the "I" follows her contemplation deep into the darkness, ultimately discovering something beyond her imagination.

Title: Super Plants - The Blooming Revolution
Original Title: Superpflanzen – Die blühende Revolution
Category: Natural Science, Life Science & Technology
[Festival Theme 2018: The Food Revolution]
Directors: Klaus Uhrig, Till Krause
Produced by: WDR / Planet Schule
Running Time: 15:00 Minutes
Country: Germany
Year: 2016
Age Guideline: University and General Public (17+)

There are plants that can do incredible things: Some can suck heavy metals out of the ground and clean completely contaminated areas. Others produce their own raw materials, which can then be harvested like grain or vegetables. This phenomenon is called phytomining. Since the discovery of the super plants, scientists around the world have been competing for the most spectacular applications. The possibilities seem unlimited. The film shows exemplary super plants and meets the leading scientists in this field in New Caledonia, Australia, France and Germany.

Title: Founders Valley_Episode 6 Indonesia - Food for the Future
Category: Ecology & Environment
[Festival Theme 2018: The Food Revolution]
Directors: Joanna Gottschalk
Produced by: Deutsche Welle, HA Wirtschaft / Wissenschaft
Running Time: 26:00 Minutes
Country: Indonesia
Year: 2017
Age Guideline: Secondary School (12 - 16)

Indonesia cannot feed its rapidly growing population itself and relies heavily on imports. Innovative young entrepreneurs present future solutions, such as vertical city fields or food made from insects. This film about the nutrition of the future, is part of the ten-part series titled "Founders' Valley". It accompanies Fridtjof Detzner, awarded the German Founder Award in 2015, to eight Asian countries. "Founders' Valley" shows what drives entrepreneurs in Asia and what obstacles they overcome to realizing their dream of owning a business in a digitalized and globalized world.

Title: Founders Valley – Episode 8: Indonesia – Sacred Water – Scarce Water
Category: Ecology & Environment
[Festival Theme 2018: The Food Revolution]
Directors: Joanna Gottschalk
Produced by: Deutsche Welle, HA Wirtschaft / Wissenschaft
Running Time: 26:00 Minutes
Country: Indonesia
Year: 2017
Age Guideline: Secondary School (12 - 16)

Bali has many (healing) springs, but clean drinking water is extremely scarce. Fridtjof Detzner meets founders who help remote communities to re-use the precious resource. At the same time, they are pushing tourist facilities to save water. This film about ways to reduce water consumption

is part of the ten-part series "Founders' Valley". It accompanies Fridtjof Detzner, winner of the German Founders Award in 2015.

Title: Founders Valley – Episode 10: India – The Climate Challenge

Category: Ecology & Environment

[Festival Theme 2018: The Food Revolution]

Directors: Christian Roman

Produced by: Deutsche Welle, HA Wirtschaft / Wissenschaft

Running Time: 26:00 Minutes

Country: Indonesia

Year: 2017

Age Guideline: Secondary School (12 - 16)

India is already suffering from climate change today. A growing number of entrepreneurs want to fight it before it's too late. This film about the fight against rapid climate change is part of a ten-part series called "Founders' Valley". It accompanies Fridtjof Detzner, awarded the German Founder Award in 2015, to eight Asian countries. "Founders' Valley" shows what drives entrepreneurs in Asia and what obstacles they overcome to realize their dream of owning a business in a digitalized and globalized world.

Title: Scientist for a Day

Original Title: Científico por un día

Category: Natural Science, Life Science & Technology

Directors: Juan Camilo Villareal

Produced by: La Buena Estrella

Running Time: 15:00 Minutes

Country: Colombia

Year: 2017

Age Guideline: Secondary School (12 - 16)

Three friends who are facing some everyday troubles, decide to seek answers within the Colombian scientific community. By meeting the scientists, as ordinary people open to share their methods, they understand that science is present everywhere, and that it is much more interesting and amusing than usually thought.

Title: Formulas for Change

Original Title: Fórmulas de Cambio

Category: Natural Science, Life Science & Technology

Directors: Juliana

Produced by: ladrón de Guevara

Running Time: 08:00 Minutes

Country: Colombia

Year: 2017

Age Guideline: University and General Public (17+)

This series of micro-documentaries features individuals whose life stories have been impacted by science, technology, and innovation. It depicts a journey through Colombia's different geographic areas in search of persons who have transformed their communities, and whose lives were themselves transformed by science. Above all, the series provides an inside look into some of the country's most talented and inquisitive minds, employing the aesthetics of the documentary and a motivational tone.

List of Schools Implementing the Special Science Program (RSHS/STE/LSHS/SSES) which are Participating in the 2018 Science Film Festival

Region	No. of Schools	Name of School	Division
NCR	28 Elementary Schools and 39 Secondary Schools	Kalookan City HS	Caloocan City
		Caloocan City Science HS	Caloocan City
		Malabon NHS	Malabon City
		Malabon National Science and Mathematics High School	Malabon City
		Ninoy Aquino Elem. School	Malabon City
		Malabon Elementary School	Malabon City
		Ernesto Rondon High School	Quezon City
		Quezon City Science HS (RSHS for NCR)	Quezon City
		Proj. 6 Elementary School	Quezon City
		Commonwealth Elem School	Quezon City
		Cubao Elementary School	Quezon City
		Manila Science HS	Manila
		Ramon Magsaysay HS (Espana)	Manila
		Manuel A. Roxas High School	Manila
		Manuel G. Araullo High School	Manila
		Cayetano Arellano High School	Manila
		V. Mapa High School	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 Science HS	Paranaque City
		Paranaque National High School- Main	Paranaque City
		Paranaque National High School-Baclaran	Paranaque City
		Moonwalk National HS	Paranaque City
		San Antonio Elementary School	Paranaque City
		San Antonio Elementary School	Paranaque City
		Paranaque Elementary School-Central	Paranaque City
		Pasay City West HS	Pasay City
		Pasay City Science HS	Pasay City
		Timoteo Paez Elementary School	Pasay City
		P. Villanueva Elementary School	Pasay City
		Villamor Air Base Elementary School	Pasay City
		Padre Zamora Elementary School	Pasay City
		Las Pinas NHS	Las Pinas
		Las Pinas City National Science HS	Las Pinas
		Las Pinas Elementary School	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 City		
Valenzuela City School of Mathematics and Science	Valenzuela City		

		Santiago De Guzman Elementary School	Valenzuela City
		Malinta Elementary School	Valenzuela City
		Sta. Elena HS	Marikina City
		Marikina Science HS	Marikina City
		Parang High School	Marikina City
		Marikina Elementary School	Marikina City
		Barangka Elementary School	Marikina City
		San Roque Elementary School	Marikina City
		San Juan National High School	San Juan
		San Juan Elementary School	San Juan
		Pinaglabanan Elementary School	San Juan
		Sen. Rene "Companero" Cayetano Memorial Science and Technology High School	Taguig City
		Taguig Science HS	Taguig City
		Kapt. Eddie Reyes Integrated School	Taguig City
		Taguig Elementary School	Taguig City
		Signal Village Elementary School	Taguig City
		Upper Bicutan Elementary School	Taguig City
		Navotas National Science HS	Navotas
		Bagumbayan Elementary School	Navotas
I	3 Elementary Schools and 4 Secondary Schools	San Nicolas Elementary School	Ilocos Norte
		Shamrock Elementary School	Laoag City
		Candon South Central School	Candon City
		La Union National High School	San Fernando City
		Dagupan City National High School	Dagupan City
		Manaoag National High School	Pangasinan II
		Dona Francisca Lacsamana Ortega MNHS (RSHS for Region I)	La Union
II	3 Elementary Schools and 4 Secondary Schools	Enrile North Central School	Cagayan
		Cabagan Science Elementary School	Isabela
		Santiago West Central School	Santiago City
		Cauayan City National High School	Cauayan City
		Quirino Gen High School	Quirino
		Abulug School of Fisheries	Cagayan
		Regional Science High School for Region II	Isabela
III	3 Elementary Schools and 4 Secondary Schools	Sindalan Elementary School	City of San Fernando
		Barasoain Memorial Elem School	Malolos City
		Palayan City Central School	Nueva Ecija
		Bataan National High School	Balanga City
		Maliwalo High School-Main	Tarlac City
		San Roque National High School	Gapan City
		Regional Science High School for Region III	Olongapo City
IV-A	3 Elementary Schools and 4 Secondary Schools	Sta. Rosa Elementary School	Sta. Rosa
		Mauban North Central School	Quezon
		Bagong Pook Elementary School	Batangas
		Bucal National High School	Cavite
		San Jose National High School	Antipolo City
		San Pablo City Science High School	San Pablo
		Regional Science High School for Region IV-A	Cavite
IV-B	3 Elementary Schools and 4 Secondary Schools	Puerto Galera Central School	Oriental Mindoro
		Gabaldon Elementayr School	Marinduque
		Camilmil Central School	Calapan City
		Lumbang East National High School	Romblon
		Matuyatuya National High School	Marinduque
		Narra National High School	Palawan

V	3 Elementary Schools and 4 Secondary Schools	Bansud National HS (RSHS for Reg. IV-B)	Oriental Mindoro
		Ligao East Central School	Ligao City
		Unidad National High School	Sorsogon City
		Iriga Central School	Iriga City
		Jose Panganiban National High School	Camarinees Norte
		Aroroy National High School	Masbate
		Pili National High School	Camarines Sur
VI	3 Elementary Schools and 3 Secondary Schools	Bicol Regional Science HS (RSHS)	Ligao City
		Lezo Integrated School	Aklan
		Cadiz West II Elementary School	Cadiz City
		Paglaum Village Elementary School	Bacolod City
		Sagay City National High School	Sagay City
		La Castellana National High School	Negros Occidental
VII	3 Elementary Schools and 3 Secondary Schools	Aklan Science Development NHS (RSHS)	Aklan
		Bayawan City East Central School	Bayawan City
		Zapatera Elementary School	Cebu City
		Tuyan Central School	Naga City
		Mandaue City Comprehensive NHS	Mandaue City
		Talisay City Science High School	Talisay City
VIII	3 Elementary Schools and 3 Secondary Schools	Ramon Pastor Teves MHS (Regional Science High School for Region VII)	Dumaguete City
		Eugenio S. Daza Pilot ES	Borongan City
		Calbayog Pilot School	Calbayog
		Maasin City SPED Center	Maasin City
		Laoang National High School	Northern Samar
		Sogod National High School	Southern Leyte
IX	3 Elementary Schools and 3 Secondary Schools	Eastern Visayas Regional Science High School (RSHS for Region VIII)	Catbalogan City
		Commonwealth Central Elementary School	Zamboanga Del Sur
		Dapitan City Central School	Dapitan City
		Manlabay Elementary School	Zamboanga Del Sur
		Zamboanga National High School West	Zamboanga City
		Katipunan National High School	Zamboanga Del Norte
X	3 Elementary Schools and 3 Secondary Schools	Regional Science High School for Region IX	Zamboanga City
		Malingao Central School	Lanao Del Norte
		Mambajao Central School	Camiguin
		Manolo CES	Bukidnon
		Bukidnon National High School	Malaybalay City
		Iligan City National High School	Iligan City
XI	2 Elementary Schools and 3 Secondary Schools	Gusa National HS (RSHS for Region X)	Cagayan De Oro City
		A. Villarica Central Elementary School	Samal City
		Sta. Ana Central Elementary School	Davao City
		Sto. Tomas National High School	Davao Oriental
		Tagum City National High School	Tagum City
XII	1 Elementary School and 4 Secondary Schools	Gov. Leopoldo Lopez Memorial SHS (RSHS for Reg. XI)	Mati City
		Romana C. Acharon Central ES	Gen. Santos City
		Lebak Legislated National High School	Sultan Kudarat
		Matalam National High School	Cotabato Province
		Malungon National High School	Sarangani
CARAGA	2 Elementary	Alabel National SHS (RSHS for Region XII)	Sarangani City
		Agusan Del Sur Pilot Laboratory School	Bayugan City
		Nasipit Central Elementary School	Agusan Del Norte

	Schools and Secondary Schools	3	Don Ruben E. Ecleo Sr Memoria National High School	Dinagat Island
			Unidad National High School	Surigao Del Sur
			Caraga Regional Science High School	Surigao City
CAR	2 Elementary Schools and 3 Secondary Schools		Baguio Central School	Baguio City
			Bulanao Central School	Tabuk City
			Mankayan National School	Benguet
			Lawig National High School	Ifugao
			Cordillera Regional Science High School	Benguet
ARMM	3 Secondary Schools		Boloboc Science and Technology High School	Tawi-Tawi
			Sultan Mangalampa Daing National High School	Lanao Del Sur
			ARMM Regional Science High School- Amir Bera Lidasan National HS	Maguindanao

