



Republic of the Philippines
Department of Education
NATIONAL CAPITAL REGION
SCHOOLS DIVISION OFFICE OF MUNTINLUPA CITY

Office of the Schools Division
Superintendent

OCT 28 2024

MEMORANDUM

2024 SCIENCE FILM FESTIVAL

To: Assistant Schools Division Superintendent/
Chief Education Supervisor, Curriculum Implementation Division
Education Program Supervisor
Public Elementary and Secondary School Heads/OICs
All Others Concerned

1. Attach is Regional Memorandum ORD-2023-988, from Ms. Gina G. Gonong, Undersecretary for Curriculum and Teaching dated October 18 to December 1, 2024, informing teachers and learners in the field on the above-captioned subject, the contents of which are self-explanatory, for information and appropriate action.
2. Attached is the list of participants and matrix.
3. Immediate and wide dissemination of this Memorandum is desired.


VIOLETA M. GONZALES

Assistant School Division Superintendent
Officer -in -Charge
Office of the Schools Division Superintendent

Encl: As stated.

Reference:

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

TEACHERS

LEARNERS

PROGRAMS

LEARNING DELIVERY

ABSO/2024 SCIENCE FILM FESTIVAL
401/October 21, 2024

UN-2024-401



Student Center for Life Skills Bldg., Centennial Ave, Brgy. Tunasan, Muntinlupa City
8805-9935, 8805-9940
sdo.muntinlupa@gmail.com
deped-muntinlupa.com

SCIENCE FILM FESTIVAL 2024
Oct. 23, 2024 (WEDNESDAY)

School Name	Time	Grade level	Movie Title	School Head	Target Participants
Putatan ES	8:00AM – 10:00AM	Grade 5 and 6	The Science of Laughter nine-and-a-half: Sneakers for the Trash - Why Sneakers Are an Environmental Problem	Mr. Hilario Canasa	100

SCIENCE FILM FESTIVAL 2024
Oct. 24, 2024 (THURSDAY)

School Name	Time	Grade level	Movie Title	School Head	Target Participants
MSHS	01:30 - 03:30 PM	Grade 7 & 8	Resortecs: Fashioning a Sustainable Future Regrow Our Home: Meet the Indigenous People Regrowing a Rainforest in Malaysia	Dr. Gina U. Urquia	100
MSHS	03:30- 05:00PM	Grade 9-10	E-Kawayaman Leader		100

SCIENCE FILM FESTIVAL 2024
Oct. 25, 2024 (FRIDAY)

School Name	Time	Grade level	Movie Title	School Head	Target Participants
TES	8:00AM – 10:00AM	Grade 4 & 5	Wingcopter nine-and-a-half: Sneakers for the Trash - Why Sneakers Are an Environmental Problem	Mrs. Olivia Elloso	100
MNHS	01:30 - 03:30 PM	Grade 7 & 8	Birds? What Are They Good For? Seaweeds	Dr. Florante C. Rante	100
MNHS	03:30- 05:00PM	Grade 9-10	Anna and the Wild Animals: Operation Rhinoceros		100

SCIENCE FILM FESTIVAL 2024
Oct. 29, 2024 (TUESDAY)

School Name	Time	Grade level	Movie Title	School Head	Target Participants
LIS -JHS	01:30 - 03:30 PM	Grade 7 & 8	Reflection in the Marsh Ananas Anam: Wearable Waste	Dr. Rosendo Sangalang	100
LIS -JHS	03:30- 05:00PM	Grade 9-10	Redesigning Global Aviation Reflection in the Marsh		100

SCIENCE FILM FESTIVAL 2024
Oct. 30, 2024 (WEDNESDAY)

School Name	Time	Grade level	Movie Title	School Head	Target Participants
IES	08:00AM – 10:00AM	Grade 4 & 5	Wingcopter Nine-and-a-half: Sneakers for the Trash - Why Sneakers Are an Environmental Problem	Mrs. Rhodora Mandap	100
TNHS	01:30 - 03:30 PM	Grade 7 & 8	Dreams of the Ravaged Drops of Dew	Dr. Ador Querubin	100
TNHS	03:30- 05:00PM	Grade 9-10	In Pursuit of Passive		100

SCIENCE FILM FESTIVAL 2024
Nov. 14, 2024 (THURDAY)

School Name	Time	Grade level	Movie Title	School Head	Target Participants
FD Mesa ES	10:00AM– 12:00 PM	Grade 4 & 5	nine-and-a-half: 100 Points for the Climate - How Environmentally Friendly Is Our Everyday Life? nine-and-a-half: Climate Justice - What Is It?	Mrs. Ma. Hazel Fernandez	100
PEDHS	01:30 - 03:30 PM	Grade 7 & 8	Resortecs: Fashioning a Sustainable Future Regrow Our Home: Meet the Indigenous People Regrowing a Rainforest in Malaysia	Dr. Antonio B. Rocha	100
PEDHS	03:30 - 05:00PM	Grade 9-10	10 Things to Know About... Trees		100

**SCIENCE FILM FESTIVAL 2024
Nov. 18, 2024 (MONDAY)**

School Name	Time	Grade level	Movie Title	School Head	Target Participants
SHES	10:00AM– 12:00 PM	Grade 4 & 5	nine-and-a-half: Scarce Water - Why Agriculture Needs Solutions nine-and-a-half: Hydrogen - The Green Energy of the Future?	Mr. Reynanldo Comisario	100
PNHS	01:30PM - 03:30 PM	Grade 7 & 8	Birds? What Are They Good For? Seaweeds	Mrs. Eden C. Binaday	100
PNHS	03:30PM - 05:00PM	Grade 9-10	Tourism in Times of Climate Change		100

**SCIENCE FILM FESTIVAL 2024
Nov. 19, 2024 (TUESDAY)**

School Name	Time	Grade level	Movie Title	School Head	Target Participants
Bayanan ES-M	10:00AM– 12:00 PM	Grade 4 & 5	Wingcopter nine-and-a-half: Sneakers for the Trash - Why Sneakers Are an Environmental Problem	Dr. Buena C. Dela Cuz	100
TNHS	01:30PM -03:30 PM	Grade 7 & 8	Reflection in the Marsh Ananas Anam: Wearable Waste	Dr. Ador Querubin	100

**SCIENCE FILM FESTIVAL 2024
Nov. 27, 2024 (WEDNESDAY)**

School Name	Time	Grade level	Movie Title	School Head	Target Participants
Bayanan ES - Unit 1	10:00AM– 12:00 PM	Grade 4 & 5	nine-and-a-half: 100 Points for the Climate - How Environmentally Friendly Is Our Everyday Life? nine-and-a-half: Climate Justice - What Is It?		100
MNHS	01:30PM - 03:30 PM	Grade 7 & 8	E-Kawayaman Leader	Dr. Florante C. Marmeto	100

MNHS	03:30PM - 05:00PM	Grade 9-10	The River In Pursuit of Passive		100
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**SCIENCE FILM FESTIVAL 2024
Nov. 28, 2024 (THURSDAY)**

School Name	Time	Grade level	Movie Title	School Head	Target Participants
AES	10:00AM– 12:00 PM	Grade 4 & 5	nine-and-a-half: Scarce Water - Why Agriculture Needs Solutions nine-and-a-half: Hydrogen - The Green Energy of the Future?	Dr. Shella Navarro	100
MSHS	01:30PM - 03:30 PM	Grade 7 & 8	The River Drops of Dew	Dr. Florante C. Marmeto	100
MSHS	03:30PM - 05:00PM	Grade 9-10	Bora Bora - The Lab of the Future		100

Note : SCIENCE FILM VIEWING and MUSEO ng Muntinlupa Day Tour .



Republic of the Philippines
Department of Education

OFFICE OF THE UNDERSECRETARY FOR CURRICULUM AND TEACHING


BCD-SCPD-O-2024- 0363

MEMORANDUM

DM-CT-2024- 355

TO : ALL REGIONAL DIRECTORS

ATTENTION : SCHOOLS DIVISION SUPERINTENDENTS
EDUCATION PROGRAM SUPERVISORS IN-CHARGE OF
SCIENCE AND FOREIGN LANGUAGE
PUBLIC AND PRIVATE ELEMENTARY AND SECONDARY
SCHOOL HEADS
ALL OTHERS CONCERNED

FROM : 
GINA O. GONONG
Undersecretary for Curriculum and Teaching

SUBJECT : GOETHE-INSTITUT'S 2024 SCIENCE FILM FESTIVAL

DATE : September 10, 2024

The Department of Education, through the Bureau of Curriculum Development-Special Curricular Programs Division (BCD-SCPD), announces the **Goethe-Institut's 2024 Science Film Festival (SFF)** to be held from **October 18 to December 1, 2024**, with the theme "Net Zero and the Circular Economy."

Organized by the Goethe-Institut, the head office of the Goethe-Institut Philippinen which is the partner of this Department in the implementation of the Special Program in Foreign Language (SPFL)-German, the festival will showcase thirty-five (35) science-related films, organized into categories for primary, secondary, and university/general public age groups, for viewing by audiences worldwide. The SFF aims to spotlight the critical role of net-zero strategies and the circular economy in addressing climate crises by encouraging practices such as reusing, recycling, and repairing existing products to actively remove carbon dioxide from the atmosphere.

In this regard, learners from both public and private secondary schools, including those from Regional Science High Schools (RSHSs), Legislated Science High Schools (LSHSs), Science, Technology, and Engineering (STE) implementing schools, Special Science Elementary Schools (SSES), and SPFL-German implementing schools are invited to participate in this event.

To facilitate participation, the DepEd BCD-SCPD will provide USB flash drives containing all the films from the Goethe-Institut Philippinen for both primary and secondary groups. Additionally, an online link will be made available for schools with reliable internet access. Participants can access the films online by registering at



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BCD-SCPD-O-2024-_____

www.goethe.de/ScienceFilmFestPh, where they will receive a unique password. The link will be accessible starting at 9:00 a.m. on October 18, 2024.

The USB flash drives will be distributed to all Regional Offices. The Education Program Supervisors/Regional Focal Persons in charge of Science and SPFL are requested to distribute the flash drives to the schools that will hold the SFF screenings during the festival period (October 18 - December 1, 2024). All USB flash drives must be returned to the DepEd Central Office on or before December 10, 2024, along with a written report on the total number of viewers throughout the festival (see Annex A).

All expenses relative to the distribution of the USB flash drives to the different schools and the return to Central Office shall be chargeable against the respective office's available MOOE, and other local funds subject to the usual accounting and auditing rules and regulations.

Participation of learners shall be subject to a 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 a 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*.

The synopses of the science films are attached for reference.

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

Immediate dissemination of this memorandum is requested.

Copy furnished:

ATTY. REVSEE A. ESCOBEDO
Undersecretary for Operations



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Republic of the Philippines
Department of Education
OFFICE OF THE UNDERSECRETARY FOR CURRICULUM AND TEACHING

BCD-SCPD-O-2024-_____ *Annex A*

**SCIENCE FILM FESTIVAL 2024
PHILIPPINES**

REGION: _____
DIVISION: _____
NAME OF SCHOOL: _____
TOTAL NUMBER OF STUDENT PARTICIPANTS: _____
TOTAL NUMBER OF TEACHER PARTICIPANTS: _____

Screening Date	Grade Level	Title of Film	Total # of Participants

EVALUATION (comments and suggestions):

Submitted by/Date:

Noted by/ Date:

Approved by:





THE PHILIPPINES SHORTLIST 2024

35 Films

EARLY CHILDHOOD

Title: Raffi
Category: Family Edutainment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Ricardo Villavicencio
Produced by: Lunes Animation & Villavicencio Studio
Running Time: 7 minutes
Country: Chile
Year: 2023

Age Guideline: Early Learners (5–8)

In "Raffi," set in Chile, young Ema experiences a transformative spring cleaning on her family's farm. As the family sorts through a myriad of objects, toys, and clothes that have fallen out of use, Ema's parents, Pa and Ma, seize the opportunity to impart valuable life lessons on sustainability. They introduce Ema to the fundamental principles of the three "Rs": reduce, reuse, and recycle. Through engaging storytelling, Ema learns that items deemed unnecessary or old can embark on a second journey, serving new purposes and thereby reducing waste. This enlightening process not only teaches Ema about the environmental impact of our daily choices but also encourages young viewers to view their belongings in a new light, understanding the power and importance of giving objects a second life in an effort to protect our planet.

Title: House of Little Scientists - Stingless Bee
Original Title: บ้านนักวิทยาศาสตร์ตัวน้อย - ชี้น้องตัวจิ๋ว
Category: Family Edutainment
Director: BeAmazing
Produced by: BeAmazing, Thai PBS, ALTV, NSM
Running Time: 9 minutes
Country: Thailand
Year: 2023
Age Guideline: Early Learners (5–8)

In this episode of "House of Little Scientists" young viewers are introduced to the fascinating world of stingless bees, creatures that resemble honey bees but have several distinct differences. Unlike bees, stingless bees vary in size and have slightly different colors. Their homes have unique shapes, and most notably, they lack the sharp stingers that other bees possess. This key difference makes stingless bees harmless and approachable, contrasting with bees that can defend themselves with their stingers. The episode delves into the intriguing differences between these tiny honey makers and other bees, highlighting the stingless bees' adorable nature and encouraging viewers to appreciate the diversity and complexity of the natural world without fear of being harmed.





PRIMARY SCHOOL

Title:	Mytikah Explores - Maria Sibylla Merian
Category:	Family Edutainment
Director:	Hygor Amorim, Recy Cazarotto
Produced by:	Recy Cazarotto, Amanda Castro
Running Time:	3 minutes
Country:	Brazil
Year:	2023
Age Guideline:	Primary School (9–11)

Manga and Leco delve into the captivating tale of Maria Sibylla Merian (1647 - 1717), a pioneering German illustrator and naturalist known for her adventurous spirit. Merian broke through the boundaries of her time by combining her artistic talent with a keen scientific interest in the natural world, especially the intricate and fantastic world of insects. Using her detailed and vibrant illustrations, she documented the life cycles of various insects, contributing significantly to entomology. Her work is particularly remarkable for its accuracy and the way it blends art with science, providing valuable insights into the metamorphosis of insects and their ecological interactions. Manga and Leco's exploration into Merian's life and work highlights her contributions to both art and science, showcasing her as a trailblazer who ventured into uncharted territories of the natural world with her remarkable observations and artistic representations.

Title:	Mytikah Explores - Charles Darwin
Category:	Family Edutainment
Director:	Hygor Amorim, Recy Cazarotto
Produced by:	Recy Doimo
Running Time:	3 minutes
Country:	Brazil
Year:	2023
Age Guideline:	Primary School (9–11)

Join Manga and Leco on an adventurous journey as they set sail to meet the famed English naturalist, Charles Darwin. Aboard their vessel, they embark towards the Galápagos Islands, a place teeming with unique wildlife and diverse ecosystems. Their mission is to delve into the mysteries of the evolution of species, a concept pioneered by Darwin himself. Through their exploration, they will encounter various animals and plants, observing firsthand the natural selection processes that Darwin studied. This expedition is not just a voyage across the sea but a journey through time, shedding light on the foundations of evolutionary biology. Manga and Leco's adventure provides a captivating insight into the significance of the Galápagos Islands in understanding the natural world's intricacies.





Title: **The Science of Laughter**
Category: Natural Science, Life Science & Technology
Director: Hanna Rybak
Produced by: Gerta Xhelo, Sazia Afrin
Running Time: 5 minutes
Country: Ukraine
Year: 2023
Age Guideline: Primary School (9–11)

It seems peculiar that an experience deemed humorous can lead to such physical reactions as showing one's teeth, altering one's breathing patterns, inducing weakness and aches in various body parts, and potentially causing tears. This exploration delves into the prevalent scientific theories regarding the reasons behind human laughter, examining how this universally observed behavior developed over time. Hanna Rybak, hailing from Ukraine, is an independent artist who has carved a niche for herself as an animation director, illustrator, and animator, with a particular passion for ceramics. Her work often intersects the realms of visual storytelling and the intricate art of animation, showcasing a deep appreciation for the medium's capacity to convey complex emotions and narratives through a blend of motion and imagery.

Title: **Wingcopter (The Show with the Mouse)**
Original Title: Flugzeugdrohne (Die Sendung mit der Maus)
Category: Family Edutainment
Director: Matthias Wegmann
Produced by: WDR
Running Time: 9 minutes
Country: Germany
Year: 2023
Age Guideline: Primary School (9–11)

A Wingcopter drone is a very special type of aircraft. Like a drone, it can take off and land vertically with its eight rotors. The latter is important because where it is deployed, there is not always a long, safe runway for takeoff and landing. Once it is in the air, two of the eight rotors pivot forwards, turning the drone into an airplane! This is a major advantage, as an airplane can fly much faster than a drone. With its electric motors, it can cover distances up to 100 kilometers. For example, it is used in Africa, specifically in the country of Malawi. There, the roads are often in very poor condition. Gasoline is not always available, and many transport vehicles are out of service. The Wingcopter drone can now transport, for example, medications that need to be kept cool, safely and quickly from one place to another. And it can take off and land in difficult terrain!





Title: **nine-and-a-half: Sneakers for the Trash – Why Sneakers Are an Environmental Problem**
Original Title: neuneinhalb: Sneaker für die Tonne – Warum Turnschuhe ein Umweltproblem sind
Category: Family Edutainment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Jonas Wintergalen
Produced by: tvision GmbH, WDR
Running Time: 10 minutes
Country: Germany
Year: 2022
Age Guideline: Primary School (9–11)

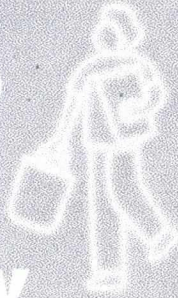
Sneakers have not only been at the forefront of fashion trends for years but have also emerged as a significant environmental concern. Seeking to understand the depth of this issue, reporter Gesa investigates the life cycle of sneakers once they are deemed unwearable and disposed of in textile recycling bins. Her journey takes her to a textile recycling facility, where she learns about the challenges and processes involved in recycling footwear. Additionally, Gesa consults with a journalist who has traced the journey of discarded sneakers to Africa, examining the environmental and social repercussions in the communities that receive these second-hand shoes. This episode of "nine-and-a-half" aims to shed light on the sneaker waste dilemma and explores potential strategies for mitigating this growing problem.

Title: **nine-and-a-half: 100 Points for the Climate – How Environmentally Friendly is Our Everyday Life?**
Original Title: neuneinhalb: 100 Punkte fürs Klima – Wie umweltfreundlich ist unser Alltag?
Category: Family Edutainment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Miriam Bade
Produced by: tvision GmbH, WDR
Running Time: 10 minutes
Country: Germany
Year: 2020
Age Guideline: Primary School (9–11)

Taking action for the climate: This is something more and more people want to do. But what really helps? Jana undertakes a self-experiment and records for one day everything she owns, consumes, and how she lives. Using the app 'A Good Day Has 100 Points', she uncovers some climate sins in her everyday life. But she also realizes: Living climate-neutral is not so easy. So, what to do? The scientist Dr. Melanie Speck has some good tips for Jana. How do eating meat, driving cars, and electricity consumption affect our climate? And how can protests help save the climate? That's what this episode of "nine-and-a-half" is about.



Net Zero and the Circular Economy



Title: **nine-and-a-half: Climate Justice - What Is It?**
Original Title: neuneinhalb: Klimagerechtigkeit - Was ist das eigentlich?
Category: Family Edutainment
Director: Antía Martínez Amor
Produced by: tvision GmbH, WDR
Running Time: 10 minutes
Country: Germany
Year: 2023
Age Guideline: Primary School (9–11)

In this episode of "nine-and-a-half" the focus is on the climate crisis, an issue that strikes with unequal impact across the globe, perceived as fundamentally unfair by many. During the Global Climate Strike, numerous children and adolescents took to the streets to demand greater climate justice. But what exactly does 'climate justice' mean, and how does it relate to each individual? This episode delves into the concept of climate justice, exploring its significance in the fight against climate change and its relevance to our everyday lives. Through interviews, expert insights, and stories from young activists, viewers will gain a deeper understanding of why climate justice is crucial for a sustainable future and how they can contribute to making a difference.

Title: **nine-and-a-half: Hydrogen –
The Green Energy of the Future?**
Original Title: neuneinhalb: Wasserstoff - Die grüne Energie der Zukunft?
Category: Family Edutainment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Miriam Witsch
Produced by: tvision GmbH, WDR
Running Time: 10 minutes
Country: Germany
Year: 2023
Age Guideline: Primary School (9–11)

Worldwide, scientists are researching solutions to combat the climate crisis. Hydrogen is seen as a great hope! In the future, it is expected to supply us with energy and replace climate-damaging fossil fuels such as coal, oil, and natural gas. This is because when hydrogen is converted into electricity, no harmful emissions are produced. But is hydrogen really the energy carrier of the future? In this episode of "neuneinhalb," Tessniem visits the "hydrogen village" Bosbüll in Schleswig-Holstein. The village not only produces hydrogen in large quantities but also operates a hydrogen filling station for buses and cars. How exactly can water be turned into hydrogen? Why is this only environmentally friendly under certain conditions? And what comes out of the exhaust of a hydrogen bus? You'll find out in this episode of "nine-and-a-half".





Title: **nine-and-a-half: Scarce Water – Why Agriculture Needs Solutions**
Original Title: neuneinhalb: Knappes Wasser – Warum die Landwirtschaft Lösungen braucht
Category: Family Edutainment
Director: Diana Peßler
Produced by: tvision GmbH, WDR
Running Time: 10 minutes
Country: Germany
Year: 2023
Age Guideline: Primary School (9–11)

In this episode, reporter Luam delves into a critical topic: water. Despite the apparent abundance of water on our planet, it is becoming increasingly scarce. Luam investigates why agriculture, in particular, consumes so much water. She discovers that inefficient irrigation methods and the cultivation of water-intensive crops are among the main reasons. In her search for solutions, she explores innovative technologies and practices that can reduce water consumption in agriculture. These include drip irrigation systems, the targeted reuse of water, and the cultivation of plants that require less water. Luam's research highlights that through mindful management and technological innovations, water usage can be significantly decreased, thereby contributing to environmental protection.

Title: **Go Go Giwas: Space Station Village - Miss You to the Stars**
Original Title: 太空站部落 EP8:天外的思念
Category: Family Edutainment
Director: Yi-Feng Kao
Produced by: Li-Yu Fu, Vick Wang
Running Time: 13 minutes
Country: Taiwan
Year: 2023
Age Guideline: Primary School (9–11)

In the episode titled "Missing You to the Stars" from the animated series "Go Go Giwas: Space Station Village," young viewers are introduced to a narrative that intertwines Taiwanese indigenous cultural elements with scientific themes. This particular installment focuses on the enduring beliefs held by various indigenous cultures in Taiwan and explores the emotional journey of a Bunon elder. Following the loss of a cherished individual, this elder seeks solace in tradition by playing a traditional musical instrument for the deceased. The setting is a space station, and the event takes place on a night when rain envelops the surroundings, adding a layer of depth to the story's atmosphere. Through this act of remembrance and the unique setting, the episode delicately bridges the gap between cultural heritage and the boundless realm of space, reflecting on the ways individuals cope with grief and find comfort in their connections to tradition and the cosmos.





SECONDARY SCHOOL

Title:	The Mystery of the Disappearing Lymphocytes
Category:	Natural Science, Life Science & Technology
Director:	Dan Fox
Produced by:	Dan Fox
Running Time:	3 minutes
Country:	United Kingdom
Year:	2023
Age Guideline:	Secondary School (12–16)

Lymphocytes, a type of immune cell, are essential in combating infections within the body. The adaptive immune system primarily consists of T cells and B cells, each serving specific functions in defense mechanisms. During the 1950s and 1960s, a series of experiments tracked the movement of lymphocytes, shedding light on their pathways and interactions throughout the body. This research provided critical insights into the behavior and role of T cells, including the process by which they recognize and attack pathogens. Additionally, it uncovered how T cells develop into memory cells, which remain in the body long after an infection has cleared, ready to respond more effectively to future exposures to the same pathogen. This foundational work has been pivotal in our understanding of immune responses, guiding subsequent advances in immunology and the development of vaccines and therapies.

Title:	The River
Category:	Non-Verbal & Science Shorts: Science Meets Art
Director:	Temujen Gunawardena
Produced by:	Badj Whipple
Running Time:	4 minutes
Country:	United Kingdom
Year:	2023
Age Guideline:	Secondary School (12–16)

The director, deeply moved by the delicate beauty and historical significance of a small chalk river in the south east of England, embarked on creating a short film that blends poetry with re-imagined history. This animated journey, spanning a remarkable 100 million years, delves into the river's story, highlighting its fragile existence in contemporary times. The filmmaking process, long and meandering, mirrored the river's own path, influencing the director profoundly. Immersed in the project, the director's perspective on the world, on time, evolved, reflecting a deepened connection with the natural environment. The film aims to focus on the intimately known, hoping to touch upon the universally relatable. It stands as an ode to the river Darent, intending not only to celebrate its beauty but also to serve as a cautionary tale about its vulnerability and, by extension, our own. Through this work, the filmmaker seeks to awaken a collective consciousness about the delicate balance between nature and human existence.





Title: Dreams of the Ravaged
Category: Ecology & Environment
Director: Breech Asher Marfil Harani
Produced by: Breech Asher Marfil Harani
Running Time: 5 minutes
Country: The Philippines
Year: 2023
Age Guideline: Secondary School (12–16)

In "Dreams of the Ravaged," three young individuals recount their harrowing experiences as survivors of the deadliest super typhoons in the Philippines, highlighting the harsh realities faced by communities on the frontline of climate change. Through a blend of live-action documentary and scribble animation, the film delves into their memories, lessons learned from the climate crisis, and their outlook on the future, navigating the delicate balance between hope and despair. The Philippines, among other Western Pacific nations, has suffered greatly from climate-induced disasters in recent years, with young families bearing the brunt of the trauma. This film, born from the director's own survival of a super typhoon, seeks to educate on the science connecting climate change and extreme weather, amplifying our collective voices in the climate action dialogue. Employing live action and animation, it captures the vulnerability of the youth affected by relentless calamities, underscoring the importance of global collective action against the climate crisis.

Title: Resortecs: Fashioning a Sustainable Future
Category: Ecology & Environment
Director: RE:TV
Produced by: RE:TV
Running Time: 6 minutes
Country: United Kingdom
Year: 2023
Age Guideline: Secondary School (12–16)

Resortecs, a Belgium-based startup, is innovating with Smart Stitch yarns to enable waste-free fashion by allowing for the automated disassembly of garments. The fashion industry, worth \$1.3 trillion and growing, is resource-intensive and polluting, using vast amounts of freshwater and contributing significantly to microfibre pollution and CO2 emissions. Fast Fashion exacerbates waste, with less than 1% of garments being recycled. Resortecs' solution involves bio-based or recycled polymers that work with current stitching machines. Garments made with Smart Stitch can be easily recycled through a closed-loop system that melts the yarn at 150-190 degrees Celsius, recovering up to 90% of the fabric. This process could drastically reduce CO2 emissions and save billions if widely adopted, proving that fashion can be both stylish and sustainable.





Title: Ananas Anam: Wearable Waste
Category: Ecology & Environment
[Focus on Theme: Net Zero and the Circular Economy]
Director: RE:TV
Produced by: RE:TV
Running Time: 7 minutes
Country: United Kingdom
Year: 2023
Age Guideline: Secondary School (12-16)

Fast fashion has gone through a period of rapid growth in the last fifty years. The sector is responsible for an estimated 10% of greenhouse gas emissions, and uses around 93 billion cubic meters of water per year - or 4% of all freshwater extraction globally. This is set to double by 2030. Ananas Anam is transforming pineapple waste into eco-friendly textiles, addressing both agricultural waste and fast fashion's environmental impact. With pineapple production generating 25 million tonnes of waste annually, Ananas Anam's innovative use of discarded leaves to create natural textiles, Piñatex and Piñayarn, presents a sustainable solution. Piñayarn is a compostable yarn, while Piñatex serves as an eco-friendly leather alternative, eliminating the need for the harmful chemicals used in traditional tanning processes. This initiative not only reduces CO2 emissions by avoiding leaf burning but also supports rural farming communities in Bangladesh, promoting a circular economy in textile production. Ananas Anam's approach demonstrates how resource reuse can lead to sustainable development beyond just fashion trends.

Title: Wild Hope: Vertical Meadows
Category: Ecology & Environment
Director: HHMI Tangled Bank Studios
Produced by: HHMI Tangled Bank Studios
Running Time: 7 minutes
Country: United States
Year: 2023
Age Guideline: Secondary School (12-16)

Amidst rapid urban expansion, façade engineer Alistair Law has innovated a solution to restore native ecosystems for pollinators and create urban green spaces by transforming building walls into 'Vertical Meadows'. In cities like London, Alistair installs living walls on buildings' vertical surfaces using a variety of plants native to the region, grown directly on-site. These engineered walls are designed to sustain plant life year-round with minimal water requirements, ensuring easy and cost-effective installation. Alistair sources seeds from Donald Macintyre, who cultivates a diverse selection of native plants. Scarlett Weston from BugLife collaborates with Alistair, studying bees at these vertical meadows and aiming to enhance pollinator pathways across the city, contributing to broader ecological networks throughout the UK.





Title: **Regrow Our Home: Meet the Indigenous People
Regrowing a Rainforest in Malaysia**

Category: Ecology & Environment

Director: Bryan Yong

Produced by: Bryan Yong

Running Time: 7 minutes

Country: Malaysia, Thailand

Year: 2023

Age Guideline: Secondary School (12–16)

The Tropical Rainforest Collection (TRLC) Banun, an NGO in Malaysia, focuses on restoring the Amanjaya Forest Reserve by employing and training Jahai indigenous communities to propagate endangered rainforest trees using traditional and scientific methods. This short documentary showcases their journey to Kampung Klewang in Royal Belum State Park to purchase tree seedlings from a Jahai-operated nursery, providing income for the community through the sale of these seedlings. As TRLC Banun works to rehabilitate degraded land to combat climate change, Bryan Yong, an aspiring environmental journalist with a background in environmental science and oceanography, emphasizes the importance of connecting researchers with the public through compelling storytelling.

Title: **Redesigning Global Aviation**

Category: Ecology & Environment

Director: RE:TV

Produced by: RE:TV

Running Time: 10 minutes

Country: United Kingdom

Year: 2024

Age Guideline: Secondary School (12–16)

The Whittle Laboratory at the University of Cambridge initiated the Aviation Impact Accelerator (AIA) to develop an open-source simulator for climate-neutral aviation, aiming for Net Zero air travel and addressing aviation's significant role in globalization and its environmental impact. With air travel's demand expected to double by 2040, the challenge is to decarbonize amidst diverse contributors to emissions. This tool analyzes data to link technologies, behaviors, and policies, exploring sustainable aviation fuels (SAF), ammonia, hydrogen, and battery innovations. It also highlights unconventional partnerships and the importance of aerodynamic improvements and business model shifts. AIA aspires to expedite sustainable solutions, making air travel more environmentally friendly.



Net Zero and the Circular Economy



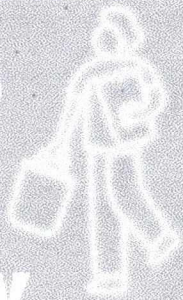
Title: E-Kawayaman
Category: Ecology & Environment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Lance Dizon
Produced by: Raquel Rarang Rivera
Running Time: 10 minutes
Country: The Philippines
Year: 2024
Age Guideline: Secondary School (12–16)

Embark on an enlightening journey to Alaminos City, Pangasinan, where an environmental initiative breaks new ground. "E-Kawayaman," directed by student filmmaker Lance Dizon from the Special Program in the Arts at Alaminos City National High School, delves into the revolutionary use of engineered bamboo. This documentary explores bamboo's role as a sustainable substitute for traditional wood, showcasing its significant environmental benefits and economic potential for the local community. Through expert discussions and vivid demonstrations, the film reveals how bamboo offers a viable solution to pressing ecological issues, positioning itself as a key material for the future. In a narrative that questions the reliance on dwindling tree resources, "E-Kawayaman" proposes bamboo as an innovative and eco-friendly alternative, highlighting the pivotal role of young minds in steering our planet towards sustainability.

Title: Leader
Category: Non-Verbal & Science Shorts
Director: Chris Overton
Produced by: Rebecca Harris
Running Time: 11 minutes
Country: United Kingdom
Year: 2021
Age Guideline: Secondary School (12–16)

"Leader" delves into the life of Donnie, a solitary individual residing in an exceedingly secluded coastal region. He dedicates his time to transforming ocean waste into artistic sculptures, channeling creativity to address environmental concerns. This routine proceeds uninterrupted until an unforeseen shift in the tidal patterns occurs. This change serves as a pivotal moment in the story, catalyzing a profound transformation not only in Donnie's life but also within his surrounding community. It's at this juncture that Donnie emerges as a source of inspiration, advocating for a revolutionary approach to living and interacting with our planet, thereby setting the stage for a new normal that embraces sustainability and environmental stewardship.





Title: **Birds? What Are They Good For?**
Category: Ecology & Environment
Director: David Lane Diperstein
Produced by: David Lane Diperstein, Charline Tetiyevsky
Running Time: 12 minutes
Country: United States
Year: 2023
Age Guideline: Secondary School (12–16)

An ecological documentary focusing on the alarming decline of bird populations and habitats amidst expanding human civilization. It delves into the historical relationship between humans and birds, highlighting how perceptions have evolved over centuries. Created in response to the escalating climate crisis, the film aims to engage both young audiences and adults in discussions about environmental improvement. It emphasizes the often overlooked yet vital role of birds within our ecosystem, influencing everything from food production to air quality. The film seeks to spark a dialogue about environmentalism among the youth, inspiring them to adopt more sustainable lifestyles. Through this exploration, "Birds? What Are They Good For?" advocates for greater awareness and action towards preserving the intricate balance of our natural world.

Title: **Seaweeds**
Original Title: Sagbot sa Dagat
Category: Ecology & Environment
Director: Frankie James Balos
Produced by: Dalumat & Department of Science and Technology - ScienceEducation Institute
Running Time: 12 minutes
Country: The Philippines
Year: 2023
Age Guideline: Secondary School (12–16)

In the fight against climate change, All.g, an innovative startup, champions the cause by leveraging the potential of seaweed farming. Moving beyond traditional coastal methods, they venture into the realm of carbon credit markets, presenting a novel approach to environmental conservation. This documentary takes viewers on a captivating journey alongside All.g, diving deep into the worlds of innovation, entrepreneurship, and sustainability. It showcases the significant role of seaweed not only as a powerful tool in carbon sequestration but also as a catalyst for positive change in the livelihoods of those within seaweed farming communities. By focusing on the underexplored capabilities of seaweed, the documentary sheds light on its importance in the ecological and economic spheres. Recognized for its compelling narrative and impactful message, the film received the Best Film Viewer's Choice Award at the DOST-SEI Indie-Siyensya in the Philippines, highlighting its contribution to environmental awareness and action.



Net Zero and the Circular Economy



Title:	Reflection in the Marsh
Original Title:	Pamalandong Sa Danow
Category:	Ecology & Environment
Director:	Breech Asher Marfil Harani
Produced by:	Breech Asher Marfil Harani
Running Time:	14 minutes
Country:	The Philippines
Year:	2023
Age Guideline:	Secondary School (12–16)

Three childhood friends, descendants of indigenous communities, dedicate their lives to safeguarding Agusan Marsh, a vital wetland in the Philippines. This area, rich in biodiversity, faces threats from climate change and human activities. Each day, they navigate a complex landscape of conservation work, striving to balance traditional practices with modern ecological management techniques. Their efforts focus on monitoring environmental changes, educating local communities about sustainable practices, and advocating for policies that protect this critical habitat. They confront challenges such as illegal logging, overfishing, and pollution, which endanger the marsh's health and their way of life. Despite these obstacles, they remain committed to their mission, driven by a vision of restoring and preserving the marsh for future generations. Their work embodies a deep connection to their ancestral land, reflecting a broader struggle for environmental justice and the survival of indigenous cultures in the face of global environmental crises.

Title:	Drops of Dew
Original Title:	Gocce di rugiada
Category:	Family Edutainment
Director:	Gianpaolo Gelati, Alessandro Melchionda
Produced by:	Gianpaolo Gelati, Alessandro Melchionda
Running Time:	15 minutes
Country:	Italy
Year:	2023
Age Guideline:	Secondary School (12–16)

During a sweltering summer with strict water rationing, young Emma receives an unexpected gift: a lemon plant. Facing the challenge of nurturing it with limited water ignites a spark in her, shaping her future. This experience becomes the cornerstone of Emma's inspiration to invent a groundbreaking, eco-friendly water recycling system as she grows older. "Drops of Dew" is a captivating short film brought to life by the innovative minds of Gianpaolo Gelati and Alessandro, both of whom have extensive backgrounds in the cinematic arts. Gelati, with degrees in scenography from the Accademia di Brera and scriptwriting from the Civic Cinema School in Milan, and Alessandro, honing his directing skills at the University of Cinema of Bologna and Silvio Soldini's ShortFilmLab, have joined forces to establish Brand Gnu. Their film company is dedicated to crafting compelling narratives, with "Drops of Dew" marking their latest creative endeavor.





Title: 10 Things to Know About... Trees
Category: Ecology & Environment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Nuala Cunningham, Jen Dunbar
Produced by: Nuala Cunningham, Jen Dunbar
Running Time: 24 minutes
Country: Ireland
Year: 2023
Age Guideline: Secondary School (12–16)

When it comes to trees, Ireland has deep roots. Forests once covered a massive 80% of Ireland's land surface and there were laws protecting certain trees. Characters in early Medieval Irish alphabets were named after native trees and who would want to cut down a Hawthorn tree for fear of angering the faeries? But today, forests only cover 11% of the country. With a drive to increase that figure to 18% by 2050, the government view forests as an essential element to achieving net zero emissions by 2050, but is 18% of Irish land enough? And as we still need timber for construction and furniture making, how do we balance our forestry needs? In this episode we discuss how better land management and land planting trees is an essential part of our climate goals, we meet the researchers who are breeding trees to create better quality timber and tackle devastating diseases like ash dieback, and reflect on how literature can shape our views on trees and nature.

Title: Anna and the Wild Animals: Operation Rhinoceros
Original Title: Anna und die Wildren Tiere: Operation Nashorn
Category: Family Edutainment
Director: Ben Wolter
Produced by: BR, Text und Bild Medienproduktion GmbH & Co. KG
Running Time: 25 minutes
Country: Germany, South Africa
Year: 2023
Age Guideline: Secondary School (12–16)

In the heart of South Africa, animal reporter Anna joins a dedicated rhino protection patrol on a crucial mission: the dehorning of a young rhino. The operation is a stark measure against the relentless threat of poaching, fueled by the high demand for rhino horns. The protection unit embarks on a meticulous search across the wildlife reserve, employing a helicopter to locate and sedate the vulnerable animal. Once grounded, the rangers perform the delicate task of sawing off the horn while ensuring the rhino's safety during its sedated state. This procedure, though controversial, is deemed essential for the rhinos' survival. Anna witnesses the intense operation from start to finish, grappling with a mix of emotions. The poignant reality of "Operation Rhino" brings her to the brink of tears, highlighting the drastic actions taken to safeguard these majestic creatures against human greed.





UNIVERSITY AND GENERAL PUBLIC

Title: How Fisheries Can Become More Sustainable
Original Title: Wie die Fischerei nachhaltiger wird
Category: Ecology & Environment
Director: Elías Tetzlaff
Produced by: Elías Tetzlaff
Running Time: 18 minutes
Country: Germany
Year: 2023
Age Guideline: University and General Public

Overfishing, along with fishing techniques that harm ecosystems, factory farming of fish, and water eutrophication due to waste from these farms, frequently come under scrutiny. Hence, the pursuit of more sustainable fishing and aquaculture practices becomes crucial. This film delves into the issue of overfishing in the North and Baltic Seas, emphasizing the necessity for policy intervention to mitigate the problem. Furthermore, it ventures to the University of Rostock to examine aquaponics, a method that combines fish farming with plant cultivation. By exploring this innovative approach, the film sheds light on how aquaponics represents a step towards a modern circular economy, offering a solution that addresses environmental concerns while sustaining productivity.

Title: In Pursuit of Passive
Category: Ecology & Environment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Mark Fisher, Eric Daft
Produced by: Mark Fisher
Running Time: 17 minutes
Country: United States
Year: 2023
Age Guideline: University and General Public

The documentary closely follows the development of the first net-zero, passive house in the Greater Tetons-Yellowstone region near Jackson, WY. It serves as an in-depth case study on the Passive House building approach, a methodology aimed at designing and constructing buildings that significantly reduce energy consumption and carbon footprint. By focusing on this groundbreaking project, the film explores the myriad climate and energy performance benefits associated with such sustainable building practices. Highlighted within the documentary are the home's designers, Lindsey Love and Lindsay Schack, who are co-founders of a sustainable architecture and design firm located in Bozeman, MT, and Driggs, ID. Their expertise, along with insights from a variety of building and climate experts, sheds light on the challenges and innovations involved in creating a home that not only meets the rigorous Passive House standards but also blends seamlessly with its natural surroundings. This narrative underscores the importance of sustainable architecture in combating climate change and promoting environmental stewardship.





Title: **Tourism in Times of Climate Change**
Category: Ecology & Environment
Director: Andrea Schäfer
Produced by: Thomas Hies, ZDF
Running Time: 30 minutes
Country: Germany
Year: 2023
Age Guideline: University and General Public

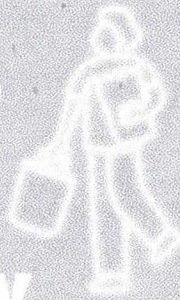
Climate change is dramatically reshaping tourism across the globe, presenting a complex narrative that isn't solely negative, contrary to what many may assume. This transformation opens up new opportunities and possibilities, enabling tourism in regions previously deemed unsuitable. Places that were once inaccessible or unappealing are now emerging as potential hotspots for travelers seeking novel experiences. Additionally, this shift is catalyzing a move towards more environmentally friendly and sustainable tourism practices, highlighting the adaptability and resilience of the industry. The film explores diverse locations such as Greenland, the Spanish island of Mallorca, and the German tourism spot Ahrtal to uncover surprising insights. Through these examinations, it reveals how destinations are adapting to change, turning challenges into opportunities for innovation and growth in the tourism sector.

Title: **Bora Bora - The Lab of the Future**
Original Title: Bora Bora, le laboratoire du futur
Category: Ecology & Environment
Director: Antoine Laguerre
Produced by: ARTISANS DU FILM
Running Time: 52 minutes
Country: France, French Polynesia
Year: 2022
Age Guideline: University and General Public

Bora Bora is the most popular destination in French Polynesia, certainly because of its lagoon, considered the most beautiful lagoon in the world. In this context, the islet could have sunk under concrete and pollution, and the reef could have been irreparably impacted. However, thanks to the will of a handful of inhabitants, including the mayor of the island, Bora Bora is today a model of sustainable development, with water treatment technologies that are 15 years ahead of France, programs for restoring corals and safeguarding wildlife, educational actions and rehabilitation of Polynesian traditions such as the "rahui" and the establishment of a monitoring network using new technologies. All this makes the island a veritable open-air laboratory that shows the way for all tropical coastal environments around the world.



Net Zero and the Circular Economy



Title: Seagrass
Original Title: Seegrass
Category: Natural Science, Life Science & Technology
Director: Florian Guthknecht
Produced by: Florian Guthknecht, ZDF
Running Time: 52 minutes
Country: Germany
Year: 2024
Age Guideline: University and General Public

Seagrass holds a pivotal role on our planet, not just as the largest reserve of sugar but also as a protector of beaches from erosion and a purifier of water, functioning similarly to a sewage treatment plant. This plant, unique in its ability to live for nearly 80,000 years, surpasses the lifespan of any other living creature on earth. Serving as both a nursery and habitat, seagrass supports a myriad of marine species, contributing significantly to the biodiversity of our oceans. Its capacity to purify sea water mirrors the efficiency of a gigantic sewage treatment facility, highlighting its importance in maintaining the health of marine ecosystems. Furthermore, seagrass possesses the remarkable ability to aid in mitigating the effects of global warming, showcasing its environmental superpowers. This documentary traces the journey of leading seaweed researchers as they explore the significance of seagrass across various regions, from the Mediterranean to the Baltic Sea. Their work illuminates the crucial role that seagrass plays in our environment and underscores the necessity of preserving this vital marine plant for the health of our planet.

Title: Green Heroes – Islands of the World
Category: Ecology & Environment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Frederic Planchenault
Produced by: Severin Delpon, Jean Moncaut
Running Time: 52 minutes
Country: France
Year: 2021
Age Guideline: University and General Public

For an extended period, the divide between urban and rural areas has persisted, growing even more pronounced as we confront unprecedented crises. In this moment, bridging the gap between these two spheres is crucial for a future that honors and protects all forms of life. Across the globe, individuals from various professions - including farming, livestock breeding, architecture, and urban agriculture - play a vital role. Their expertise and daily efforts are invaluable in preserving our planet. This raises pivotal questions: Could the keys to urban sustainability lie within our rural landscapes? Is it time to pledge ourselves to a future that embraces environmental stewardship? We embark on a journey to explore the lives of these 'Green Heroes' championing a more sustainable existence and guardians of our Earth's precious resources. Their dedication illuminates the path toward a harmonious coexistence between human advancement and the natural world.





Title: **Greenwashing: The Climate Killer**
Original Title: Superprofits : Les multinationales s'habillent en vert
Category: Ecology & Environment
[Focus on Theme: Net Zero and the Circular Economy]
Director: Claire Tesson
Produced by: Luc Hermann, Paul Moreira
Running Time: 52 minutes
Country: France
Year: 2023
Age Guideline: University and General Public

Amid climate change and consumer demands, many multinationals pledge "carbon neutrality," often through "carbon offsetting" by financing projects like tree plantations rather than cutting emissions. This model has spurred a business ecosystem, with intermediaries connecting companies to reforestation projects globally, yet prioritizing profit over ecological impact. These projects, although well-intended, frequently fall short or harm the environment and local communities. Nespresso's commitment to making "every cup of coffee carbon neutral by 2022" exemplifies the controversy, raising questions about the genuine impact versus greenwashing in corporate sustainability claims.

Title: **Giants Rising**
Category: Ecology & Environment
Director: Lisa Landers, Tangent Productions
Produced by: Tangent Productions in association with Manitou Fund and the Redford Center
Running Time: 80 minutes
Country: United States
Year: 2024
Age Guideline: University and General Public

A journey into the heart of America's most iconic forests, "Giants Rising" reveals the secrets and the saga of the coast redwoods - the tallest and among the oldest living beings on Earth. It's an epic tale that explores the wonders of these silent giants and our dramatic, ever-evolving relationship with them. Living links to the past, redwoods also hold powers that may play a role in our future, including their ability to withstand fire and capture carbon, to offer clues about longevity, and even to enhance our own well-being. How do they do it - and how will redwoods keep working their magic as they're pushed to their limits? Through the voices of biologists, artists, Native peoples and others racing to understand and safeguard these trees, "Giants Rising" reveals the scientific wonders of redwoods, our deep cultural ties to them, and efforts to help these iconic forests overcome the legacy of logging that nearly wiped them out. It's a story that offers lessons about resilience and connection, and the promise of solutions that will help us ALL rise up from the past and face the challenges that lay ahead.

