

EUROMATH & EUROSCIENCE 2022 – EUROPEAN STEAME 2022 PROGRAMME

ALL TIMES ARE IN EEST TIME ZONE (THESSALONIKI TIME)

Monday, 27 June 2022 Grand Hotel Palace, Thessaloniki		
All day	Arrivals	
15:00 – 19:00	REGISTRATION GRACE HALL FOYER	Registration for Conference participants and Competition Finalists MATH & SCIENCE Poster Design Competition - Submission of printed poster designs
	<i>REGISTRATION name cards required for entering conference rooms. Coupons required for meals</i>	POSTER DESIGN EXHIBITION AREA GRACE HALL Foyer
Tuesday, 28 June 2022 Grand Hotel Palace, Thessaloniki		
08.30 +	REGISTRATIONS MATH & SCIENCE Poster COMPETITION Submission of printed poster design	

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Place	GRACE HALL A (Level 0)	GRACE HALL B&C (Level 0)	CELESTE (Level +1) STEAME CONFERENCE
Coordinators	Elpi Margariti	Thomas Economou	Eleni Papageorgiou/Giorgos Tsalakou
09:20 – 09:40	WSF1 WHAT ARE TV-SHOW MATH TASKS? Hiie Asser, Maksim Ivanov, Julia Klochkova Tartu Annelinna Gymnasium, Estonia	MPF2 SELTEN TO THE RESCUE: KIDNAPPING 101 Stephanos Artemis, The Senior School, Nicosia, Cyprus	WSF4 E Π I – STEAME Sotos Voskarides, Affiliate Professor, Cyprus University of Technology Electrical & Comp Engineering & Informatics
09:40 – 10:00	WSF1 WHAT ARE TV-SHOW MATH TASKS?	MPF3 BREAKING THE LIMITS Alexander Anton Faskevich The Senior School, Nicosia, Cyprus	WT04 Scientific methods -useful tools for fostering creativity Valentina Gogovska UKIM, Faculty of Natural Sciences and Mathematics, Skopje, North Macedonia
10:00 – 10:20	WS11 E Π I – STEAME Sotos Voskarides, Affiliate Professor, Cyprus University of Technology Electrical & Comp Engineering & Informatics	SPO11 (ONLINE) LIVESTOCK ODOR PROBLEM IN JEJU ISLAND Dowoon Lee (Bill) St. Johnsbury Academy , Jeju-do, Republic of Korea	WS03 ETRe: A Competence Framework that will enable teachers to rapidly transition from physical to a digital learning environment Thomas Economou, Project Manager at School of the Future International Academy (SoFIA)
10:20 – 10:40	WS11 E Π I – STEAME	SPO12 (ONLINE) BENEFICIAL INSECTS Hayoon Cho NLCS Jeju, Daejeongeup Seogwiposi, Jeju-do, South Korea	WS03 ETRe: A Competence Framework that will enable teachers to rapidly transition from physical to a digital learning environment
10:40 – 11:00	MPF4 IS THIS YOUR LUCKY DAY? Bougias Alexandros, Niozas Aggelos, Palaiodimos-Charalampidis Alexandros, Papadias Vasilis Pierce - The American College of Greece	SPO13 (ONLINE) HOW CAN WE SOLVE A CRIME USING FORENSIC SCIENCE? Elvin Li, Ashley Jung, Joy Hwang NLCS Jeju, Daejeongeup Seogwiposi, Jeju-do, South Korea	ST03 Scientix: Get involved and be inspired! Ioannis Lefkos, <i>Scientix Ambassador / University of Macedonia</i>

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Grand Hotel Palace, Thessaloniki

11:00 - 11:30

JUICE BREAK (GRACE HALL FOYER)



EUROMATH & EUROSCIENCE 2022 and EUROPEAN STEAME CONFERENCE 2022 Opening Ceremony

11:30 – 13:00, Tuesday, 28 June 2022

Room GRACE HALL B&C (Level 0), Grand Hotel Palace, Thessaloniki, Greece

Welcoming address by the chair of the Organizing Committee

Prof. Gregory A. Makrides,

Chair of the Organizing Committee of the Conferences
President of Cyprus Math Society, President of the THALES Foundation
Vice-Chair of Education Committee, European Mathematical Society

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Greetings(online)

Prof. Volker Mehrmann, President of the European Mathematical Society

Invited Keynote Presentation (online)

PLACE BASED LEARNING IS THE FUTURE OF SCHOOLING

Design Principles for a Changing World

By

Prakash Nair, AIA

President & CEO

Education Design International

Roni Zimmer Doctori

Principal Architect

Education Design International

11:30 –
13:00

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13:00 – 14:30	Lunch Break, Place: GRAND BALL ROOM (Level -2) Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration desk		
Place	GRACE HALL A (Level 0)	GRACE HALL B&C (Level 0)	CELESTE (Level +1) STEAME CONFERENCE
Coordinators	Giorgos Tsalakou/Eleni Papageorgiou	Thomas Economou/Andreas Skotinos	Elpi Margariti/Yannis Kotsanis
14:40 – 15:00	SPF20 CONCENTRATED SOLAR ENERGY Christos Tapakoudis, Charis Tapakoudis Dianellou & Theodotou Gymnasium, Nicosia, Cyprus	MPO22 (ONLINE) APPLICATION OF BOOLEAN ALGEBRA IN CODING AND CRYPTOGRAPHY AND DESIGN OF ELECTRICAL SENSORS Sana Mohamadi, Zanjan SAMA Girls' Junior High School, Iran	ST05 The STEAME School of the Future (www.steame.eu) Gregory Makrides, Professor of STEAME Education at PUC and President of the Cyprus Mathematical Society
15:00 – 15:20	WSF3 A MISSION TO MARS! Eleni Papageorgiou, Ph.D., Teacher Trainer in Mathematics, Giorgos Tsalakou, Ph.D., Teacher Trainer in Science, Cyprus Pedagogical Institute	MPF11 MATHS, A SUBJECT USED IN EVERY SPORT Ioannis Ioannou, Louis Aristotelous The English School Nicosia, Cyprus	ST05 The STEAME School of the Future
15:20 – 15:40	WSF3 A MISSION TO MARS!	MPF12 MATHS IN MARKETING Kyriacos Avraam, Filaretos Ierotheou The English School Nicosia, Cyprus	ST08 STEAME-Students: European Networking of STEAME School Students for Exchange and Co-creation Gregory Makrides, President – THALES Foundation, Prof. of STEAME Education, PUC
15:40 – 16:00	WSF3 A MISSION TO MARS!	MPO23(ONLINE) APPLICATION OF THE PIGEONHOLE PRINCIPLE IN SOLVING INTELLIGENCE PROBLEMS Seyedeh Elisa Hashemi Zanjan Shahed-Narghes Elementary School, Iran	ST07 ONLIFE & FACILITATE-AI Empowering & Facilitating Competences' Development for ON-LIFE Teaching and Facilitate the AI learning by school students G. Makrides, CyMS, Cyprus, & E. Margariti, Y. Kotsanis , Doukas School, Greece

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Coordinators	Giorgos Tsalakou/Eleni Papageorgiou	Yannis Kotsanis/Andreas Skotinos	Thomas Economou/Elpi Margariti
16:00 – 16:20	WSF3 A MISSION TO MARS!	MPO24(ONLINE) NOVEL AND CLASSIFIED METHOD FOR SOLVING PROBLEMS RELATED TO CUBES AND DICE FUNDS Nahal Mannani Zanjan SAMA Girls' Elementary School, Islamic Azad University, Zanjan Branch, Zanjan, Iran	ST06 (ONLINE) STEAME GOES HYBRID : Blueprint Guidelines and Policy Recommendations Gregory Makrides, Preisident CyMS, <u>Nikolas Stylianides</u> , CEO LEAFNET
16:20 – 16:40	WSF3 A MISSION TO MARS!	MPO25(ONLINE) RATIONAL KNOTS AND RATIONAL NUMBERS: ARE THEY RELATED? Kyriakos Kourkoulis Varvakeion Model High School, Athens, Greece Supervisor: Dr. Lygatsikas Zenon	ST06 (ONLINE) STEAME GOES HYBRID : Blueprint Guidelines and Policy Recommendations
16:40 – 17:00	WSF3 A MISSION TO MARS!	MPO26(ONLINE) FIXED SYSTEMS UNDER THE SHAPLEY-SHUBIK AND BANZHAF INDICES WITH ONE OR TWO PRESIDENTS Demira Georgieva Nedeva High School of Mathematics “Acad. K. Popov”, Plovdiv, Bulgaria	WT02 How to integrate climate change and environmental awareness by engaging students in STEAME project-based activities involving the use of online data or the use of IoT to obtain data from plants placed in learning spaces <u>Elpiniki Margariti</u> , Project Manager at Doukas School <u>Thomas Economou</u> , Project Manager and Coordinator at Doukas School
17:00 - 17.20	JUICE BREAK during work (GRACE HALL FOYER)		

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Coordinators	Eleni Papageorgiou/Yannis Kotsanis	Giorgos Tsalakou	Thomas Economou/Elpi Margariti
17:00 – 17:20	SPF1 WIM HOF METHOD Jost Lombardo Skofijska klasicna gimnazija, Slovenia	MPF8 USING BENFORD’S LAW AS AN EPIDEMIOLOGICAL TOOL FOR COVID-19 PANDEMIC DATA ANALYSIS IN GREECE Kagkaras Odysseas, Kariofylli Danai, Karpouzi Elisavet, Koufopoulou Eirini, Limnaios Dimitris, Maneta Chrysa Varvakeion Model High School, Athens, Greece	WT02 How to integrate climate change and environmental awareness by engaging students in STEAME project-based activities involving the use of online data or the use of IoT to obtain data from plants placed in learning spaces
17:20 – 18:00	SPF2 SEARCHING FOR A NEEDLE IN A HAYSTACK – GENE EDITING WITH CRISPR CAS9 Eva Deftera, Angelos Koutentakis, Daniella Metaxa, Nestoras Panayiotou – Ioannou, Iliana Skordi The Senior School, Nicosia, Cyprus	MPF9 HEALTH^2 Lefki Andreou, Blanca Angelica Castellanos, Koralia Karapataki, Panagiota Kokkinou, Anna Orthodoxou American Academy Larnaca, Cyprus	WT05 BYOD: Learn Mathematics at any time, any place, and by any device, on-line, using tailored multimedia learning content based on students' learning needs and mastery of the subject <u>Elpiniki Margariti</u> , Project Manager at Doukas School <u>Thomas Economou</u> , Project Manager and Coordinator atoukas School
18:00 – 18:20	SPF3 NUCLEAR ENERGY Koufoudakis Panagiotis, Kotopoulos Nikolaos, Lignos Theodoros The American College of Greece-Pierce, Athens, Greece	MPF10 THE ROOT OF MEDIA Stephanie Omotola, Kyriaki Kalli, Carla Kleanthous, Kyriaki Efstathiadou, Anna Chrysanthou, Konstantina Efstathiadou American Academy Larnaca, Cyprus	WT03 EDUCATIONAL INFOGRAPHICS AS STEAM INTELLECTUAL OUTPUTS <u>Daniela Florescu</u> , Liceul Teoretic “Tudor Arghezi”, Craiova, Romania

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Coordinators	Elpi Margariti	Thomas Economou	Eleni Papageorgiou/Giorgos Tsalakou
18:20 – 18:40	SPF4 CRYONICS: A WAY OUT TO ETERNAL LIFE Dimitriou George, Livaniou Katerina The American College of Greece-Pierce, Athens, Greece		WT03 EDUCATIONAL INFOGRAPHICS AS STEAM INTELLECTUAL OUTPUTS <u>Daniela Florescu</u> , Liceul Teoretic “Tudor Arghezi”, Craiova, Romania
18:40 – 19:00	SPF5 TOWARDS A NEW ERA IN MEDICINE: 3D PRINTING OF HUMAN ORGANS Karali Ioanna, Psarogiorgou Vasiliki, Vonatsou Evangelia The American College of Greece-Pierce, Athens, Greece		

Dinner Dance “Mathematics and Science by Night”

20:30 – 01:00 **Place: Grand Ball Rooms A & B (Level -2)**
Grand Hotel Palace, Thessaloniki, Greece

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Place	GRACE HALL A (Level 0)	GRACE HALL B&C (Level 0)	CELESTE (Level +1) STEAME CONFERENCE
Coordinators	Elpi Margariti	Thomas Economou/Yannis Kotsanis	Giorgos Tsalakou/Andreas Skotinos
09:20-09:40	MPF13 HOW DID THE KONIGSBERG PROBLEM REVOLUTIONISE MATHEMATICS Dimosthenis Morphis, Michalis Petrides, Klimis Porfyridis, Andreas Kalimeras The English School Nicosia, Cyprus	SPO14 (ONLINE) ADVANTAGES & DISADVANTAGES AND THE FUTURE OF GENETICALLY MODIFIED CROPS (GM CROPS) Heon Na , Dohoon Kim St. Johnsbury Academy , Jeju, Republic of Korea	
09:40 – 10:00	SPO6 (ONLINE) CREATING AN EARTH-LIKE ATMOSPHERE ON MARS Kaloudis Aristomenis , Kaloudis Sevastianos, Koutsoumpas Markos , Dif Allah Ibrahim Supervisors: Dimitriadis Savvas MSc, Chachali Lina MSc I.M.Panagiotopoulos School, Greece	SPO15 (ONLINE) THE EFFECTS AND SIGNIFICANCE OF L-DOPA IN PARKINSON’S DISEASE Sion Park, Chaeyoung Sohn, Joonhee Kim, Minjae Lee, Gyeongrok Hwangbo Cornerstone Collegiate Academy of Seoul, Republic of Korea	ST09 INNOMATH : Innovative enriching education processes for Mathematically Gifted Students in Europe Andreas Skotinos, Vice-president, Cyprus Mathematical Society
10:00 – 10:20	SPO7 (ONLINE) OXYGEN GAS-FILLED MICROPARTICLES Andrikopoulou Marina, Pogka Maria Supervisors: Dimitriadis Savvas MSc, Chachali Lina MSc, I.M.Panagiotopoulos School, Greece	MPF6 MATHEMATICS IN COOKING Lana Acinger, Andrea Hasančević Prva riječka hrvatska gimnazija, Croatia	ST02(ONLINE) SCHEMES FOR GIFTED HIGH SCHOOL STUDENTS Mina Teicher, University of Miami, USA
10:20 – 10:40	SPO8 (ONLINE) PROSTHETIC LIMBS IN SPORTS Parara Marisia, Koutsoumpa Stella, Kopsidi Elpida, Mamali Eirini, Mazaraki Despoina, Thomaidou Marianna Supervisors: Dimitriadis Savvas MSc, Chachali Lina MSc, I.M.Panagiotopoulos School, Greece	MPF7 ANALYZING AND OPTIMIZING FOOTBALL STRATEGIES USING MATHEMATICS Jure Jerneić Prva riječka hrvatska gimnazija, Croatia	WT01 STEAME pedagogy and STEAME methodology: Developing STEAME-Learning and Creativity Plans for Project Based Teaching and Learning Eleni Papageorgiou, Ph.D., Teacher Trainer in Mathematics, Cyprus Pedagogical Institute Georgos Tsalakos, Ph.D., Teacher Trainer in Science, Cyprus Pedagogical Institute

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Coordinators	Elpi Margariti	Thomas Economou	Eleni Papageorgiou/Giorgos Tsalakou
10:40 – 11:00	SPO9(ONLINE) THE EFFECTS OF MUSIC IN THE HUMAN ORGANISM Panagiotis Gkavalis, Marialena Gerakiti, Zotou Aphrodite Supervisors: Dimitriadis Savvas MSc, Chachali Lina MSc I.M.Panagiotopoulos School, Greece	MPF14 CAN MATHEMATICS WIN AT MONOPOLY ? Riana Georgiadi, Theodora Constantinou The English School Nicosia, Cyprus	WT01 STEAME pedagogy and STEAME methodology: Developing STEAME-Learning and Creativity Plans for Project Based Teaching and Learning
11:00 – 11:20	SPO10(ONLINE) INVESTIGATING THE ROLE OF THE COSMIC RAYS ON AEROSOLS AND CLOUDS, AND THEIR IMPACT ON CLIMATE Desislava Markova, Meriem Fereva American College of Sofia, Bulgaria	MPF15 MATHEMATICALLY DETERMINING THE TIME BY LOOKING AT THE SUN Ana Ivkovic Prva rijecka hrvatska gimnazija, Croatia	WT01 STEAME pedagogy and STEAME methodology: Developing STEAME-Learning and Creativity Plans for Project Based Teaching and Learning
11:20 – 11:40	JUICE BREAK (GRACE HALL FOYER)		
11:40 – 12:00	MPO20 (ONLINE) IS MATHEMATICS A LANGUAGE? Aikaterini-Maria Boura Supervisors: Dimitriadis Savvas MSc, Chachali Lina MSc I.M.Panagiotopoulos School, Greece	MPF17 MATH IN BACTERIA Marija Švegović OŠ Braća Radić, Koprivnica, Croatia	WT01 STEAME pedagogy and STEAME methodology: Developing STEAME-Learning and Creativity Plans for Project Based Teaching and Learning

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Coordinators	Elpi Margariti	Thomas Economou	Eleni Papageorgiou/Giorgos Tsalakou
12:00 – 12:20	MPO27(ONLINE) NEWTON'S SHELL & SUPERB THEOREMS Theofrastos Vangelatos, Panagiotis Maistros, Alexandros Pothos Varvakeion Model High School, Athens, Greece Supervisor: Dr. Lygatsikas Zenon	MPF18 (ONLINE) MATH IN ASTRONOMY Antea Jelović OŠ Braća Radić, Koprivnica, Croatia	WT01 STEAME pedagogy and STEAME methodology: Developing STEAME-Learning and Creativity Plans for Project Based Teaching and Learning
12:20 – 12:40	WSF2 ESCAPE (CLASS)ROOM Mara Grašić, Ksenija Varović Osnovna škola „Braća Radić“, Croatia	SPO16 (ONLINE) CURRENT ADDRESS OF MEDICINE FOR VARIANTS OF TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHY Byungjun Kwon, Doyoon Lee, Hosung Lee, Kijoo Yoon Cornerstone Collegiate Academy of Seoul Seoul, Republic of Korea	WT01 STEAME pedagogy and STEAME methodology: Developing STEAME-Learning and Creativity Plans for Project Based Teaching and Learning
12:40 – 13:00	WSF2 ESCAPE (CLASS)ROOM	SPO17 (ONLINE) SCIENCE AND THE ENVIRONMENT Hong Ji Eon, Kim Yu Gong, Kuk Seo Jin, Kim Min Seok Singapore International School, South Korea	WT01 STEAME pedagogy and STEAME methodology: Developing STEAME-Learning and Creativity Plans for Project Based Teaching and Learning
13:00 – 14:30	Lunch Break, Place: GRAND BALL ROOM (Level -2) Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration desk		


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14:40 – 15:00	MPF19 DOES A “NATURAL ABILITY IN MATHEMATICS” EXIST? Nikolina van Bregt Osnovna škola „Braća Radić“ Koprivnica, Croatia	SPO18 (ONLINE) BERNOULLI PRINCIPLE Su-ho Jang, Hyeon-woo Gil Elementary School, South Korea	
15:00 – 15:20	MPF5 FROM PAGE TO STAGE Viktorija Kavain Prva riječka hrvatska gimnazija, Croatia	SPO19 (ONLINE) ALL ABOUT CLOCKS Yoon-seo Kwon, Ju-ha Park Elementary School, South Korea	
15:20 – 15:40	MPO28 (ONLINE) MATHEMATICS IN ARCHITECTURE Amadea Filipović OŠ Braća Radić, Koprivnica, Croatia Mentor: Mara Grašić		

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15:40 – 16:00	JUICE BREAK (GRACE HALL Foyer)
Place	GRACE Hall B/C , (Level 0)
Coordinator	Giorgos Tsalakos & Elpi Margariti
16:00 – 18:00	 MATHFactor and SCIENCEFactor Europe 2022 Competitions – Finals Open to the public
Finals FACTOR Europe 2022 GRACE Hall B/C , Level 0	
16:00 – 17:20	<u>MATH-FACTOR EUROPE 9-13 (ONLINE)</u>
	MFLo1. “Mathematics in architecture”, Amadea Filipović, Croatia MFLo2. “Mathematics and tennis”, Mia Gregurina, Croatia MFLo3. “Math and the invention of the number zero”, Yang Si Wan, South Korea MFLo4. “Math and Space exploration”, Lee Geon, South Korea MFLo5. “Math and the different states of matter”, Choi Yul Gyeom, South Korea MFLo6. “Math and Dinosaurs”, Jeong Sung Yun, South Korea MFLo7. “Math and food chains”, Choi Hui Jun, South Korea MFLo8. “Math and pollution in the Pacific Ocean”, Liam Bowman, South Korea MFLo9. “The Smile of Silla”, Gil Hyun Woo, South Korea MFLo10. "Maths and Haiku: Patterns and Combinations", Ioanna Georgoulea, Greece
17:20 – 18:00	<u>MATH-FACTOR EUROPE 14-18</u>
	MFU1. “Monty Hall problem”, Marko Pracek, Slovenia (ONLINE) MFU2. “The number Pi”, Zala Vintar, Slovenia (PHYSICAL) MFU3. “The beginning of mathematics”, Nikolina van Bregt, Croatia (PHYSICAL) MFU4. “ENIGMA”, Lavra Urbanija, Slovenia (PHYSICAL) MFU5. “Most important organ of the human body”, Marija Švegović, Croatia (PHYSICAL) MFU6. “Sound of nature”, Teodora Ilić, Slovenia (PHYSICAL) MFU7. “Angle of a radian? I have the way... Come and see!”, Ioanna Charalampous, Cyprus (PHYSICAL) MFU8. “Cups and rings”, Domen Rubin, Slovenia (PHYSICAL)

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Thursday, 30 June 2022

Grand Hotel Palace, Thessaloniki

Place	GRACE HALL B&C (Level 0)
Coordinators	Giorgos Tsalakos & Elpi Margariti
10:00 – 11:00	<p><u>SCIENCE-FACTOR EUROPE 9-18</u> SFp1. “Wim Hof's Method”, Jost Lombardo, Slovenia (PHYSICAL) SFp2. “Smart Table”, Kyriacos Demetriou, Cyprus (PHYSICAL) SFo3. “Water Clock”, Park Ju Ha, South Korea (ONLINE) SFo4. “Sundial”, Kwon Yoon Seo, South Korea (ONLINE) SFo5. “Bernoulli's Theorem”, Jang Su Ho, South Korea (ONLINE)</p>
11.00 – 13.00	<div style="display: flex; align-items: center;">  <div> <p>MATH & SCIENCE Theatre Europe 2022 Competition Finals Open to the public</p> </div> </div>
	<p><u>MATH-THEATRE 9-18</u> MT1. “A Story of Zero and the other Numbers”, I.M.Panagiotopoulos School, Greece (Students: Papagiannis Antonios, Chrysaugi-Daskalaki Alexia, Chrysaugi-Daskalaki Athanasia, Georgoulis George, Gliatis Theodoros, Alexopoulos Alkinoos, Kokolaki Melina) MT2. “A Tricky Phone Number”, Liceul Teoretic "Tudor Arghezi"& Jacstyle Model & Talent Agency, Romania (Students: Mihnea Ștefan Radu, Ștefan Bogdan Corbu, Maria Alexandra Ungureanu) MT3. “The random triangle”, I.M.Panagiotopoulos School, Greece (Students: Tattis Marios, Charalampidou Elecktra, Vergadis Evaggelos) MT4. “Math Hate Vs Math Love ... And Music in Between”, Jacstyle Model & Talent Agency, Romania (Students: Jacqueline Alessia Craciun, Andrei Cristian Corbu)</p>

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13:00 – 14:30	Lunch Break, Place: GRAND BALL ROOM (Level -2) Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration desk		
Thursday, 30 June 2022 Grand Hotel Palace, Thessaloniki			
15:30 – 16:00	JUICE BREAK waiting for results		
	AWARDS CEREMONY (GRACE Hall B/C, Level 0)		
Coordinator	Giorgos Tsalakos & Elpi Margariti		
16.00 – 17.00	Results of MATH & SCIENCE Poster Design 2022 Competition Results of MATHTheatre Europe 2022 Results of MATHFactor Europe 2022 Results of SCIENCEFactor Europe 2022 Results of MATHPresentation 2022 Competition Results SCIENCEPresentation 2022 Competition Other awards		
Friday, 1 July 2022			
All day	Departures		

