



Erasmus+

## Aristotelio College

private educational institution



**Aristotelio College** participates in European educational programmes, invests in New Technologies and functions as a laboratory of generating ideas and innovative approaches, aims to create responsible and active citizens and contributes to quality education. It is a school open to the local and wider community.

Since 1980, it has been operating under the name «**Aristotelio College**» in idyllic natural surroundings



## In the area of Pilea



It includes:

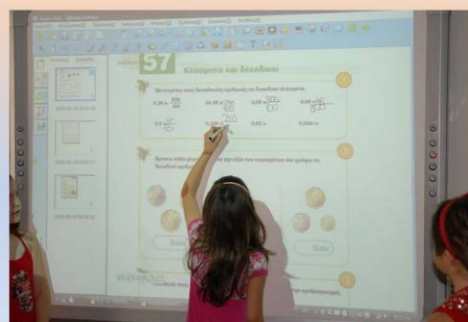
Nursery



Kindergarten



Primary School, grades one ...



... to six

## In the area of Thermi



Junior High School



Senior High School

# EUREKA! Past, Present and Future!

Aristotelio College, together with four other schools from Europe, takes part in the European programme **Erasmus+ Key Action 2 Strategic Partnerships for Schools Only/ «Co-operation for Innovation and the Exchange of Good Practices»**, with the project


**EUREKA! Past, Present and Future!**,  
ref. number 2016-1-UK01-KA219-024237\_2

**ΑΡΙΣΤΟΤΕΛΕΙΟ ΚΟΛΛΕΓΙΟ**  
ΠΑΙΔΑΓΩΓΙΚΟ ΕΤΑΙΡΜΟΣ - ΝΗΠΙΑΓΩΓΕΙΟ ΔΗΜΟΤΙΚΟ-ΓΥΜΝΑΣΙΟ-ΛΥΚΕΙΟ

The school took its name from **Aristotle, the great Greek philosopher**

“Educating the mind without educating the heart is no education at all,”  
- Aristotle

“It is the mark of an educated mind to be able to entertain a thought without accepting it.”  
- Aristotle



The school uses the most modern pedagogical methods and the full range of Information Technology



Our approach to education is based on the assumption that education should aim at helping students form a complete and integral personality



We promote critical thinking and creative initiative



Social development of child



Emotional intelligence  
communicative skills and collaboration



High moral values and ideals  
volunteering and humanitarianism



Fair play, social justice  
diversity and tolerance



## Objectives of the «Eureka!» project in accord with Aristotelio College principles

- To increase participants' sense of initiative and entrepreneurship
- To increase competence in foreign languages
- To increase the level of participants' digital competence
- To provide the opportunity to research, design, create, manufacture and present an invention
- To foster greater understanding to linguistic and cultural diversity
- To foster a more positive attitude towards the European Project

# MULTI-CULTURAL EDUCATION



**Aristotelio College**  
a modern European school!



Το **Αριστοτέλειο Κολλέγιο Δημοτικό**, με υπεύθυνη καθηγήτρια τη Ms. Georgia Safouri, συμμετέχει φέτος ως εταίρος στο Ευρωπαϊκό πρόγραμμα **Erasmus+**, Δράση KA2 Στρατηγικές Συμπράξεις αποκλειστικά μεταξύ σχολείων, Τομέας Σχολικής Εκπαίδευσης /«*Συνεργασία για την καινοτομία και την ανταλλαγή καλών πρακτικών*», με τη σύμπραξη

**«EUREKA! Past, Present and Future!»**



Συντονιστής του σχεδίου είναι το σχολείο **Craigclowan Preparatory School** στο Perth της Σκωτίας. Τα υπόλοιπα σχολεία - εταίροι της σύμπραξης είναι: **Ecole Saint Victor** στο Paris της Γαλλίας, **Istituto Comprensivo Verbania Pallanza** στη Verbania της Ιταλίας, **Scoala Gimnaziala nr.14** στο Braşov της Ρουμανίας.

Το σχέδιο δράσης **«EUREKA! Past, Present and Future!»** (09/2016 – 11/2018) έχει σκοπό να εμπνεύσει τους νέους ανθρώπους να σκεφτούν, να σχεδιάσουν και να δημιουργήσουν, και να τους βοηθήσει να δουν ότι με ομαδική εργασία, σκληρή δουλειά υπό τη σωστή ηγεσία μπορεί να είναι αυτοί η επόμενη γενιά των **εφευρετών!**



Ο βασικός στόχος αυτού του έργου είναι να παρέχει στους νέους τις δεξιότητες αλλά και την ευκαιρία να αναπτύξουν την αίσθηση της πρωτοβουλίας, την αγάπη για το **έρευνά και το έπιχειρείν**. Παράλληλα οι μικροί μας μαθητές, θα βελτιώσουν τις ικανότητές τους στις ξένες γλώσσες και τις Νέες Τεχνολογίες και θα κατανοήσουν τη γλωσσική και πολιτιστική πολυμορφία. Εν τέλει θα προικιστούν με ένα σύνολο δια βίου δεξιοτήτων που θα ενισχύσουν το ρόλο τους ως Ευρωπαίοι πολίτες και ως μελλοντικά πολύτιμα μέλη της αγοράς εργασίας. Ελπίζουμε κι εμείς να αναφωνήσουν οι μικροί μας μαθητές, *ωσάν τον Αρχιμήδη,*

***Εύρηκα- Εύρηκα!***

**Πρώτος σταθμός: Σκωτία, μήνας Δεκέμβριος**  
**Σχολείο: Craigclowan Preparatory School**



Διακρατική συνάντηση· συμμετέχοντες, εκπαιδευτικοί από την κάθε χώρα (Ελλάδα, Σκωτία, Γαλλία, Ιταλία, Ρουμανία)· αντικείμενο, ο σχεδιασμός του πλάνου του προγράμματος.

Η δράση **Erasmus+** ανοίγει νέες πόρτες προς την Ευρώπη, για τους εκπαιδευτικούς και για τους μαθητές, δίνοντάς τους την ευκαιρία να μάθουν για πολιτισμούς άλλων λαών, να αντιπαραβάλουν εκπαιδευτικά συστήματα, να ανταλλάξουν ορθές πρακτικές.





Erasmus+



**Visiting the Temporary Exhibition «IDEA - Ancient Greek Science and Technology»  
at Thessaloniki Science Centre and Technology Museum**



The «**EUREKA! Past, Present and Future!**» project proposes to foster entrepreneurship, from an early age, and the idea that anyone has the capability of being an inventor. It aims to inspire young people, build on their sense of initiative and to show them that through team work, cooperation, hard work and good leadership, they will be the next generation of inventors.



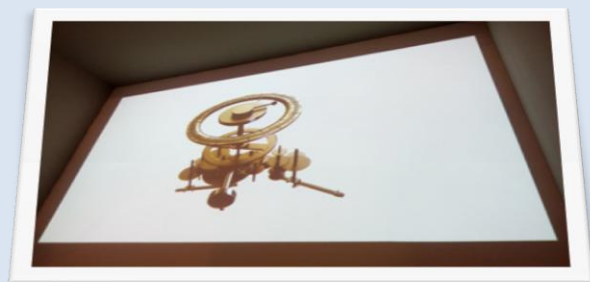
In **February 2017**, during the first phase of the project «**EUREKA! Past, Present and Future!**», Aristotelio College students went to **Thessaloniki Science Center and Technology Museum «NOESIS»**, where they visited the temporary exhibition «**IDEA - Ancient Greek Science and Technology**» and they had the opportunity to see and learn about technological achievements of 3000-2000 years ago and scientific fields, which have solved everyday problems and met people's, since the ancient times.



**The Automatic Puppet Theatre**



**The Catapult**



**The Astrolabe**

The exhibition «**IDEA – Ancient Greek Science and Technology**» displays the advancement of Greek thought which created many scientific fields, while at the same time attained plenty of technical and technological achievements, which played a keystone role for the development of modern Western, and not only, Technological Civilization.

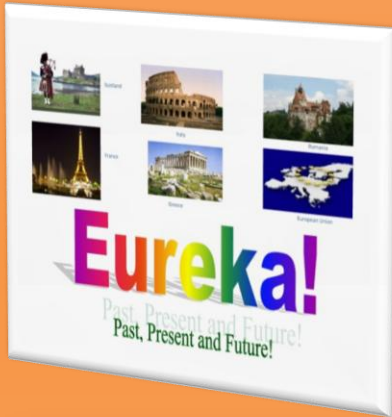
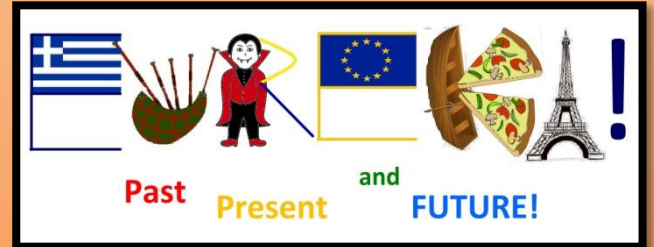
**Aristotelio College students, young Inventors, the floor is yours!**



## Project Logo

Greece is responsible for designing the logo of **Eureka! Past, Present and Future!**

A competition is held and the winner logo is finally decided on at the Learning Activity in Greece, by Greek and Erasmus students!



... and the winner LOGO is





## Greek Inventors and Inventions

The first phase of the “Eureka!” project has begun: The research into our own country's past Inventors and Inventions.

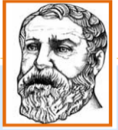
### About the Invention

- The Mobile Automaton is today's Puppet Theatre.
- It was invented to entertain people and to teach them a lesson.
- The first theatre had 5 scenes.
- Heron (or Hero) of Alexandria invented it.
- It was invented in the 1<sup>st</sup> century B.C.



Aristotelio College students work hard and produce factsheets in Greek and presentations in English on Greek Inventors and their Inventions. The objective of this activity is to make up one multi-lingual and multi-cultural e-book on the past inventions of the five countries involved.

### About the Inventor



- He was born in Alexandria in 10 B.C.
- His name was Heron of Alexandria.
- He also invented Heron's Formula and the Aeolipile (today's steam engine).
- He invented theories in Maths and Geometry and made improvements in Algebra.
- He died at the age of 65.

Archytas invented, in around 400-300 BC, a steam-powered flying device, the flying pigeon! And of course it was the first robot in ancient history!!



And why a bird? Couldn't he transfer his idea into a humanoid robot?

He crafted a bird to study the way in which they fly!



The invention of the Catapult



Archimedes invented the catapult to use it as a weapon against the enemy. It was an ancient war system which launched rocks and timber, over a great distance against moored enemy ships.

A short **theatrical play** was inspired by the Eureka project and based on the idea that all Greek inventors were philosophers. The past and the present is brought together: Aristotle, the Great philosopher conducts a lesson to a modern-time student about ancient **Greek inventors, who were all philosophers**. Among the philosophers are Archytas, Plato, Ptolemy, Philo, Heron, Pythagoras, Periander, Anaximander and even, Aristotle's greatest student Alexander the Great, who owes his being to his parents but his well-being to his teacher. Modern Western Civilization owes so much to the Greeks, says Archimedes in the play, while a half-naked Archimedes comes out of his bathtub shouting “Eureka! Eureka!”, having found the way to measure the purity of a golden crown.

### One of his achievements



In his quest to find out the purity of the crown of the king, Archimedes discovered that objects, put in water, will displace water.

The amount of the displaced water will be equal to the difference between the weight of the object out of and in the water.

Once he made this discovery, he jumped out of the bathtub, shouting,

**“Eureka! Eureka!”**



## TRIP TO GREECE

First learning Activity, 11-19 March 2017



From a boat trip on Thermaikos bay, to Axios Delta National Park, to Vergina Macedonian tombs, to Mieza and Aristotle School, to Aristotelio College school, to Thessaloniki tour, to Circus tricks, to snowy mount Olympus, home of the gods and Dion archaeological site, to swimming in the sea - we did everything that week! And you were the best partners-companions on this journey towards Invention, towards

“EUREKA!” Thank you, all!

Day 1, At **Axios Delta National Park** with our Scots and Romanian partners

Home of 300 species of birds, endangered included, such as the Glossy Ibis, the Avocet, the Pygmy Cormorant, the Dalmatian and Mediterranean Gull. The riparian forest is home for one of the greatest mixed bird colonies in Greece and Europe. Our wetland guide was Alexander Gasios, forester-environmentalist, while environmentalist Eva Katrana filled us in with interesting information at Axios Management Agency.



Day 2, at **Aristotelio College, Thessaloniki, Greece**, host school of the first learning activity



Students presented their research work to each other and teachers. The Greek students presented the logo design, which they had been responsible for. Finally, Greek students enacted a short **theatrical play**, inspired by our project Eureka and based on the idea that all Greek inventors were philosophers. The past and the present is brought together: Aristotle, the Great philosopher conducts a lesson to a modern-time student about ancient Greek inventors, who were all philosophers. Among the philosophers were Archytas,

Plato, Ptolemy, Philo, Heron, Pythagoras, Periander, Anaximander and even, Aristotle's greatest student Alexander the Great, who owes his being to his parents but his well-being to his teacher. Ancient Greek inventions were the predecessors of Modern Western technology. Modern Western Civilization owes so much to the Greeks, says Archimedes in the play, while a half-naked Archimedes comes out of his bathtub shouting "Eureka! Eureka!", having found the way to measure the purity of a gold crown. At the end of this educational and humorous theatrical play, students/philosophers danced in front of our partner teachers and students the Zorba dance, and invited everyone to dance with them!



### Day 3, at the city of Vergina and at Aristotle School at Mieza



We first visited the museum at **Vergina** where the tombs of the kings of Macedonia were unearthed, including the tomb of Phillip II, Great Alexander's father.

We then went to **Mieza**, where philosopher Aristotle taught the boy Alexander the Great at the well-known Aristotle school, where the natural

surroundings gave food for thought for Aristotle and his disciples. Our wonderful guide-archaeologist, Maria Girtzi, took us back in time and we followed her, as if we were her own disciples, in our quest for knowledge.



### Day 4, on a tour round Thessaloniki



We had a tour of the White Tower, the city emblem on the waterfront and next climbed up the Byzantine Castles, which formed part of the city wall in war times. We were guided through the Archaeological museum and saw unique masterpieces of ancient Greek art dating from prehistoric times to late antiquity. We passed by important churches, like St. Sofia and Rotunda behind the triumphant Arch of Galerius and finally the church of Thessaloniki's patron Saint, St. Demetrius, where our

amazing tour guide, Maria Girtzi took us through the catacombs, and reenacted the story of our patron Saint. At the end of a busy morning, we walked through the Roman Forum and ended up in Aristotelous Square.



Day 4, in the evening, at **Paramuthupoli**, with the “**Kirko**” collective-  
*Circus for all*

We had fun while practising Trapeze, Aerial Hoop, Aerial Silks and Aerial Rope, guided by experienced artists of the “Kirko” collective and made feel at home by our great hostess, Marina Polymeridou, owner of the bookstore.



Day 5, at the archaeological site of **Dion** and mount **Olympus**



Guided by Maria Girtzi, we visited the little town of Dion, the official religious centre of the Macedonians in the 5<sup>th</sup> century B.C., where Alexander the Great offered splendid sacrifices at the sanctuary of Olympian Zeus before embarking on his Asian campaign. Then we drove to mount **Olympus**, where we went hiking and exploring, up the snowy path, under the awesome blue Greek sky, in search of the Gods of Greek mythology!

Day 6, at the **beach**

Guided by... our own instinct, we enjoyed a lovely meal on the beach, where under the awesome blue Greek sky and in the bright sunshine, **Eureka!** was engraved on the sand and some brave Erasmus kids had a dive in the cold sea!



It's been such an exciting experience for everybody! Two of the aims of this project have been achieved: We have come to know the Greek Inventors,

who were all philosophers, the greatest being Aristotle, whom our school was named after, and we have made real friends around Europe, the future global Inventors, bff we hope!



**SEE YOU ALL SOON!**



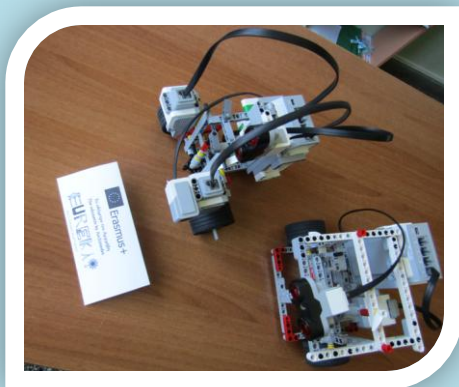
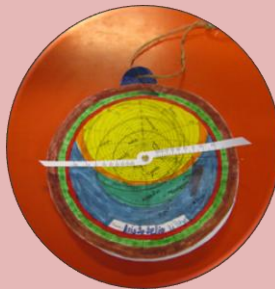
## Model Making of past Greek Inventions Arts & Crafts and Robotics Workshops

Aristotelio College students collaborate and have fun while making model replicas of ancient Greek inventions, which they researched into in the first phase of the project.



The models are going to be presented by the students who are travelling to Paris in May 2017.

With simple materials, like clay, cardboard, cardboard boxes, paper, acetate, tongue depressors, crayons, our young students are creating replicas of ancient inventions, from Pythagoras' cup to the automatic puppet theatre and cinema by Heron, Archimedes' catapult, Anaximander's maps, Ptolemy's astrolabe and world map, to modern World Maps.

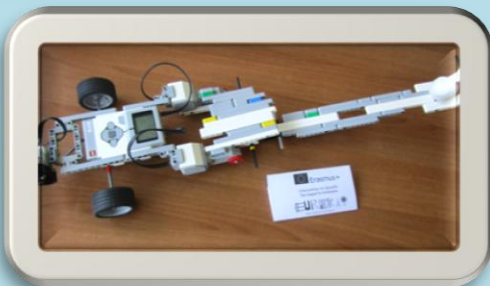
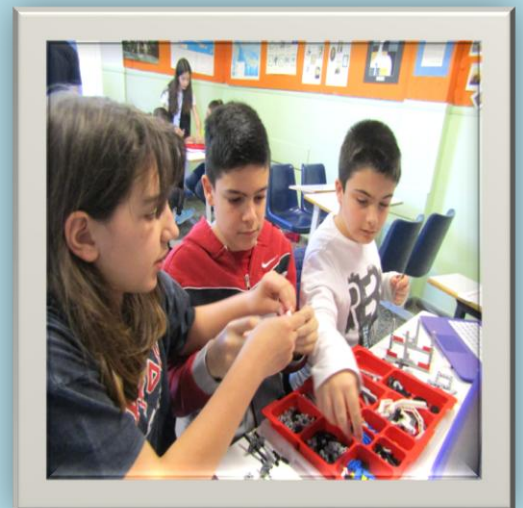


In Robotics workshops Aristotelio College students work on Science and Technology and construct robots which are replicas of ancient Greek automata.

Archimedes' catapult throws stones, with a simple waving in front of a sensor, while clapping or hooraying sounds signal the success of the action.

The odometre, by Archimedes, walks and counts centimetres, stops in front of obstacles, claps, talks!

This is the education of the future, this is the modern school, which gives multiple stimuli to the students and moulds imaginative people, the **next generation of inventors!**



## Aristotelio College travels to Paris, 4-9 May 2017



In the framework of the **Erasmus+** programme **Eureka! Past, Present and Future!**, five students and two teachers, Ms Georgia Safouri and Ms Iosifina Katoflidou, from Aristotelio College travel to Paris, the capital of France, on a six-day trip, to present their work on the model making of ancient Greek Inventions and share it with our partners from Scotland, France, Italy and Romania.

### The Chronicle



#### May 4: Day 1

Greek team arrives in Paris. They visit Ecole Saint Victor, the host school and have a relaxing fun day, on the stilts! In the evening, students return to host families, while Greek teachers walk around Paris, view Pantheon and walk down towards Notre Dame.



#### May 5: Day 2



Erasmus partners receive a warm welcome by the host school, teachers and students. The French students give a musical recital to honour our visit and launch hot air balloons in their yard- we have a fun time at Ecole Saint Victor!



Students present their Greek inventions: With of ancient inventions, puppet theatre and Anaximander's maps, modern World Maps. catapult throws stones distances.



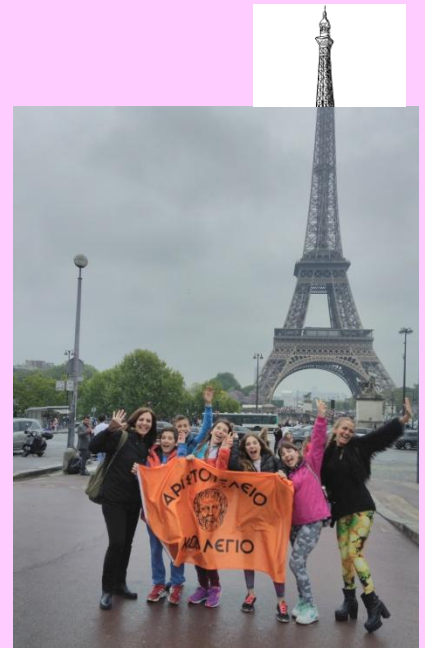
work on the model making of ancient simple materials we have created replicas from Pythagoras' cup to the automatic cinema by Heron, Archimedes' catapult, Ptolemy's astrolabe and world map, to We have also made robots: Archimedes' and the odometre walks and counts

We already feel as if we are the **next generation of inventors!** After work students have fun swimming at the local swimming pool.



### May 6: Day 3

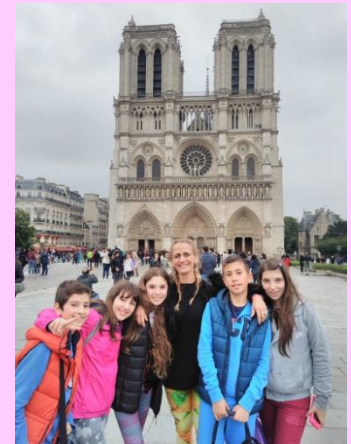
The Erasmus teams go to the Arts et Metiers Museum. From Foucault's pendulum to Bleriot's plane, the students follow in the footsteps of inventors and pioneers, hoping to become themselves inventors one day! We then go up the Eiffel Tower, an invention, a landmark, a world symbol.



We see the Trocadero, we shop at avenue Champs Elysees, we go through the Arc de Triomph,



and for the perfect ending of a perfect day, we attend the service and pray to Virgin Mary in Notre Dame.



### May 7: Day 4

At the Louvre: the Greek team admires Niki of Samothraki, Aphrodite of Milos, Mona Lisa, Egyptian sculptures, Italian paintings and sees how Greek sculptors invented and spread the use of symmetry in the body form of statues. We finally see the awesome Pyramids of the Louvre.



We then go up the Big Wheel and enjoy the view of Paris from above!



We see the square de la Concorde with the Egyptian obelisk, the Eiffel Tower and the Tuileries Gardens!



We eat le barber a papa, we visit Pantheon, we walk to Opera Garnier.



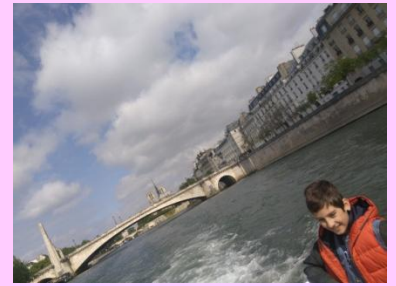
## May 8: Day 5



The Erasmus teachers and students take the bateau mouche and enjoy the view of the whole Paris by the Seine! Welcome on board! We take photos of the Louvre, the Royal

Bridge, the Eiffel Tower, Alexander III Bridge, the Wheel, the American Church, the National Assembly. The Notre Dame stands awesome at the heart of Paris by the Seine! Back on land!

We head for Monmartre and walk up the stairs to Sacre Coeur. We wander around the narrow streets, meet street artists and have our portraits made.



## May 9: Day 6



We are in Paris – a dream has come true. But it's over!

Departure of the Greek team - catching a last glimpse of the City of Lights!



PARIS, A BIENTOT!!