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THE GREAT INVENTIONS THAT CHANGED HISTORY

THE WHEEL

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YEAR 3I STEM PROJECT

The students of Year 3I had so much fun creating their own STEM project based on the evaluation of the WHEEL.



Year 3S STEM Project



“ I changed with time. I have a circular shape. People made me with different materials. The Year 3S students tried their best to use me in making different models with the knowledge they gained in Maths, Science and Topic. ”.



Year 4C children in action , building a Mayan Temple “EL - Castillo ”, in Chichen - Itza, as their STEM Project



Students of year 4 I built the Mayan Temple "El-Castillo" in Chichen- Itza as their STEM project



The 4S students made a structure of the “El Castillo” Temple in Chichen Itza as their STEM project.





SC STEM Project

The primary goal of this project was to develop students' knowledge and creative abilities in the fields of Science, Technology, Engineering, and Mathematics. Students used their understanding to create different sorts of pyramids and shadoofs.



Science

Technology

English

Mathematics



The students completed this project as group work. They were divided into five groups to complete this task. The teacher showed students a sketch of a pyramid, and they had to adjust the different proportions to build step pyramids and conventional pyramids. This activity was student-centered, and they also learnt how to make 3D shapes by making squares and pyramids. After that, the pyramids were painted and covered in sand and pasta. The project was also linked to the Math and topic lessons. As a result, students realized that their analytical problem-solving and communication abilities, ability to identify problem types, and interactions with others all contribute to the learning process.



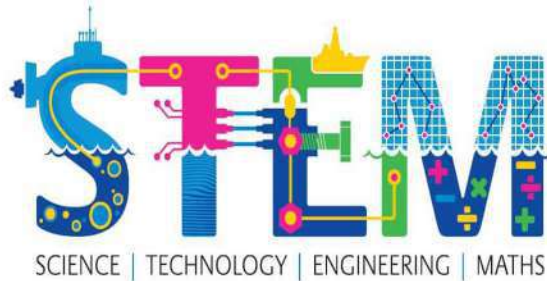
Year 5-I STEM Project

The Step Pyramid of Djoser, also known as the Djoser Pyramid, is an archaeological structure in Egypt's Saqqara Necropolis. Egypt's first massive stone structure is a 4-sided, 6-tiered edifice. It was built in the 27th century BC during the Third Dynasty for the burial of Pharaoh Djoser. Students in grade 5I built a model of Djoser's famous step pyramid and square pyramid as part of their STEM project. To complete this project, students applied their knowledge and skills gained during Maths, Science, ICT, and Topic lessons.



YEAR 5S- STEM ACTIVITY

The Students of Year 5S were thrilled to take part in the STEM activity. The theme was 'Ancient Egypt'. The students were divided in five groups. During their Science lesson they made a Shaduf using the knowledge they had gained on levers. They also made a step pyramid using cuboid cardboard boxes and a flat sided pyramid employing their maths skills. During their Art lessons they coloured Ancient Egyptian wall paintings. The students wrote down a structured description of What STEM means and how they made their project, the challenges they faced and the lessons they learnt using their creative writing skills. Students used the information they had learnt during their Topic lessons to assemble the overall project. With the pictures taken of their activity they made a 'Picture Story' during the ICT lessons. The students not only enjoyed doing this activity they also learnt a lot of interesting lessons, most importantly to work as a team!





STEM Week - Year 6 C

Make a model of The Parthenon

STEM PROJECT YEAR 6: THE PARTHENON

What were the challenges faced when doing the project?

We faced several challenges throughout the project. We had to use precise calculations to place the columns when building the Parthenon. It was also a challenge to keep the heavy paper columns from collapsing on to the base of the project. We had to place the columns precisely so that they could hold the weight of the roof evenly. The most challenging part was to glue the columns, base and the roof together to form the Parthenon.

What did you learn about ancient Greek architecture?

We learnt that Greek architecture was complex, from constructing columns to carving statues to building temples such as the Parthenon. We also learnt that the Greeks used precise measurements and sophisticated techniques when constructing the Parthenon.



DEVINDA LOKKODIKARA : 4 C



STEM PROJECT YEAR 6: THE PARTHENON

What were the challenges faced when doing the project?

Making the floor plan was one of the challenges we faced because there had to be the exact same distance on either side between the columns. Making and pasting the columns was another challenge for all of us as all the columns had to be the same height. Placing the roof on top was another struggle as it kept on sliding down if there wasn't sufficient glue to hold it together.

What did you learn about ancient Greek architecture?

I learnt how intricate and complicated Greek architecture is and what a process it would have been building the Parthenon. It was hard enough building a model of the Parthenon, so I can just imagine what a lot of planning and effort was put in by the ancient Greeks to build the actual Parthenon!



THAIHYA FAROOK: 6C

STEM PROJECT YEAR 6: THE PARTHENON

What were the challenges faced when doing the project?

The main challenge we faced when making the project was that the Parthenon was unstable and most of it collapsed several times. The glue was not strong enough to hold the roof together. We were also short of a few materials needed to build the Parthenon. There was also limited time for us to finish the project. As a result, we had to move quickly with the project.

What did you learn about ancient Greek architecture?

Greek architecture was highly advanced and it was so detailed! They put a lot of effort into it. It must have been hard for the ancient Greeks to put this huge Parthenon together. It is unbelievable as to how they would have accomplished such a feat without the modern technology we have today.



K.K. SENUDI AYANSA : 6C



STEM PROJECT YEAR 6: THE PARTHENON

What were the challenges faced when doing the project?

As we had to work as a team, we faced different issues but overcame them with time. One of our team members had not brought the material we needed, so we couldn't fix the Parthenon. Occasionally, the columns of our project would fall over like dominoes but with the help of my fellow team-mates we managed it.

What did you learn about ancient Greek architecture?

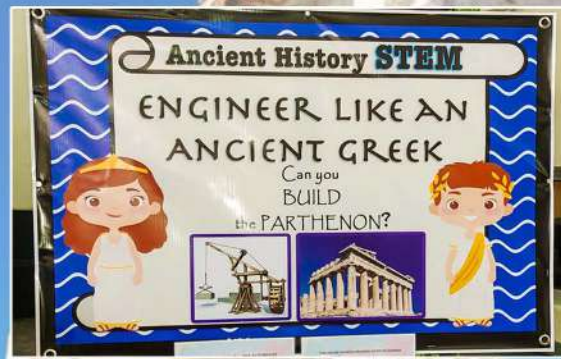
We learnt that ancient Greeks loved to make beautiful architecture in honour of their gods. They used fine columns to hold the Parthenon up. The Parthenon was painted brightly in earlier years but in recent times all the colours from the Parthenon have faded. The ancient Greeks made beautiful art as well as architecture.



COLLIN MADURAPERUMA : 6C



STEM PROJECT YEAR 6 I



Through our STEM 'Parthenon Project' we were able to recreate the magic of the Parthenon using teamwork and collaboration.

We learnt the following skills:

- Problem Solving
- Creativity
- Communication
- Digital Literacy
- Application of Knowledge





Our year 6 students used the STEM project to discover how science, technology, engineering, the arts and math can be combined with history and geography to learn about how the Ancient Greeks built the Parthenon.

